

## AUDITORIUM

## SESSION 5

09:30 - 13:00

**Primary Care Day I “Effective disease- and self-management in primary care”****Aims:** The 2011 Primary Care Day offers:

- an excellent networking opportunity between respiratory care specialists, allied health professionals and GPs;
- the state-of-the-art on primary care clinical problems, scientific insights, teamwork and innovations in primary care;
- a prime venue to share new developments in respiratory primary care, and learn from peers all over the world.

**Target audience:** Respiratory specialists, GPs, nurses, allied health professionals and patient group representatives.**Chairs:** N. Chavannes (Leiden, The Netherlands), G. Burge (Birmingham, United Kingdom)

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|-------|---|---|
| 09:30 | Applicability of pulmonary rehabilitation in primary care: critical success factors, use of patient reported outcomes and consequences of population differences<br>R. Jones (Plymouth, United Kingdom) | 1 |
| 10:00 | Integrated disease management of COPD: role of self-management and internet support<br>N. Chavannes (Leiden, The Netherlands)   | 2 |
| 10:30 | Models of delivering COPD care: workforce, networks and training<br>M. Swanney (Christchurch, New Zealand)  | 3 |
| 11:00 | Coffee break  |   |
| 11:30 | The paradox of primary care and respiratory health: evidence of benefit for people and populations with asthma and COPD<br>C. Van Weel (Nijmegen, The Netherlands)                                      | 5 |
| 12:00 | Successful multidisciplinary smoking cessation treatment in primary care: novel options for both nurse and general practitioner<br>O. Van Schayck (Maastricht, The Netherlands)                         | 6 |
| 12:30 | Improving patient and care outcomes by multidisciplinary integrated care for obstructive lung disease<br>I. Smeele (Eindhoven, The Netherlands)   | 7 |

## AUDITORIUM

## SESSION 19

14:00 - 17:30

**Primary Care Day II “Quality of assessment and diagnosis”****Chairs:** N. Chavannes (Leiden, The Netherlands), G. Burge (Birmingham, United Kingdom)

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|-------|---|----|
| 14:00 | Lower limits of normal: to support COPD diagnosis and management with the individual in the centre<br>T. Schermer (Nijmegen, The Netherlands)     | 76 |
| 14:30 | Quality of diagnostic and therapeutic services: how do we deliver and assess/monitor them?<br>A. Kaplan (Richmond Hill, Canada)                   | 77 |
| 15:00 | Standards of training and delivery of spirometry and blood gases in primary care<br>B. G. Cooper (Birmingham, United Kingdom)                     | 78 |
| 15:30 | Coffee break  |    |
| 16:00 | Oxygen assessment: how, when, what? (long-term oxygen therapy, ambulatory, nocturnal and short burst)<br>J. Lloyd (Staffordshire, United Kingdom) | 80 |
| 16:30 | Pulmonary rehabilitation: how to maintain quality over quantity in haste<br>B. Tiep (Monrovia, United States of America)                          | 81 |
| 17:00 | Accreditation of respiratory services in primary care<br>S. Blonshine (Mason, United States of America)   | 82 |

## ROOM 3.2

## SESSION 16

13:00 - 16:30

**Session: Fellows’ Get-Together**

**Aims:** To bring together ERS Fellows who were awarded an ERS Fellowship between 1997 and 2011, as well as experts involved in the reviewing procedure of the applications, and to communicate their experience to anyone interested in applying for an ERS Fellowship. In addition this conference intends to provide a valuable networking platform for young individuals who wish to interact with experienced ERS Officers or who wish to share their experiences with other young fellows.

**Target audience:** Recipients of ERS Fellowships 1997 – 2011, potential candidates for ERS Fellowships, ERS Fellows’ Host and Home Supervisors, members of the ERS Evaluation Committee for the review of Fellowship applications, Young Investigators & Scientists, Lung Science Conference mentees and mentors, participants under 35 years of age, ERS Officers and Assembly Heads.

**Chairs:** L. Nicod (Lausanne, Switzerland), R. Bals (Homburg, Germany), O. Eickelberg (Munich, Germany), B. Nemery (Leuven, Belgium)

- |       |  |    |
|-------|--|----|
| 13:00 | Welcome and short introduction by the Research Director (overview of the ERS Fellowship Programme)<br>R. Bals (Homburg, Germany)   | 58 |
| 13:10 | Ice-breaking cocktail (refreshments, finger food) with Poster-Board Presentations by Marie Curie Fellows of their research and results<br>L. Chimentì (Palermo, Italy), J. Choi (Seoul, Republic of Korea), P. Dandekar (Mumbai, India),<br>F. De Man (Amsterdam, The Netherlands), A. Goolaerts (Brussels, Belgium), M. Ladjemi (Montpellier, France),<br>F. Lador (Geneva, Switzerland), L. Nunez-Naveira (Coruna, Spain), R. Vieira (Sao Jose Dos Campos, Brazil) | 59 |

## SATURDAY SEPTEMBER 24

14:10	Oral Presentations by Marie Curie Fellows of their fellowship's experience, professional achievements & career impact	
	L. Chimenti (Palermo, Italy)	60
	J. Choi (Seoul, Republic of Korea)	61
	P. Dandekar (Mumbai, India)	62
	F. De Man (Amsterdam, The Netherlands)	63
	A. Goolaerts (Brussels, Belgium)	64
	M. Ladjemi (Montpellier, France)	65
	F. Lador (Geneva, Switzerland)	66
	L. Nunez-Naveira (Coruna, Spain)	68
	R. Vieira (Sao Jose Dos Campos, Brazil)	69
15:00	Coffee break & Group photo	
15:20	Presentation of the new ERS Junior Members Committee by the ERS Secretary General	
	M. Gaga (Athens, Greece)	71
15:35	Report from the bench – views from one Home & Host Supervisor	
	J. C. De Jongste (Rotterdam, The Netherlands)	72
	M. Humbert (Clamart, France)	73
15:55	Overview of the EU-Marie Curie Fellowship Funding Opportunities for Researchers	
	A. Craig (Brussels, Belgium)	74
16:10	Panel discussion moderated by the ERS Conferences and Seminars Director	
	O. Eickelberg (Munich, Germany)	75

## HERMES EXAMINATION

ROOM ELICIUM 2

14:00 - 17:00

European Examination in Adult Respiratory Medicine  
European Examination in Paediatric Respiratory Medicine

## POSTGRADUATE COURSES

ROOM G104-105

SESSION 10

09:30 - 13:00

## PG1 Interventional pulmonology

**Aims:** To define the role of the main diagnostic and therapeutic interventional procedures in the management of lung cancer and of other lung and pleural diseases. At the end of this course, participants will know the technical aspects of the procedures and how to include them in the appropriate clinical setting.

**HERMES syllabus links:** D.2.11 Flexible bronchoscopy, D.2.17 Rigid bronchoscopy, D.2.18 Interventional bronchoscopic techniques including fluorescence bronchoscopy, brachytherapy, endobronchial radiotherapy, afterloading laser and electrocoagulation cryotherapy, photodynamic therapy, airway stents, D.2.14 Endobronchial ultrasound, D.2.10 Pleuroscopy (medical thoracoscopy), D.2.13 Transbronchial needle aspiration

**Type of course:** Case and problem based

**Target audience:** Respiratory physicians, critical care physicians, thoracic surgeons, trainees and thoracic oncologists.

**Chairs:** T. Suttedja (Amsterdam, The Netherlands), C. Dooms (Leuven, Belgium)

09:30	Sampling techniques in bronchoscopy. Is there any news?	
	R. Eberhardt (Heidelberg, Germany)	28
10:15	Histology versus cytology: is it the true problem? What the pathologists are asking to interventional pulmonology	
	A. Orlandi (Rome, Italy)	29
11:00	Break	
11:30	Place of cryotherapy, brachytherapy and photodynamic therapy in therapeutic bronchoscopy of lung cancers	
	J. Vergnon (Saint-Etienne, France)	31
12:15	Transbronchial needle aspiration (TBNA) and endobronchial ultrasound-TBNA: not only lung cancer staging	
	R. Trisolini (Bologna, Italy)	32

ROOM G106-107

SESSION 11

09:30 - 13:00

## PG2 Noninvasive ventilation (NIV) for stable hypercapnic COPD: recent advances and practical considerations

**Aims:** To update participants on recent advances in the application of long-term noninvasive ventilation (NIV) in stable hypercapnic chronic obstructive pulmonary disease (COPD) patients and to provide practical considerations for daily clinical use.

**HERMES syllabus links:** A.1 Structure and function of the respiratory system, B.9 Acute injury, B.10 Respiratory failure, B.15 Genetic and developmental disorders, E.1.18 Principles of stem cell therapy, E.1.6 Ventilatory support, G.1 Intensive care, G.2 High-dependency unit, H.1 Thoracic surgery, I.4 Quality of life measures

**Type of course:** Case and problem based

**Target audience:** Pulmonologists, emergency medicine doctors, respiratory physicians, clinical researchers, GPs and research fellows.

**Chairs:** E. Clini (Modena, Italy), P. Navalesi (Vercelli, Italy)

09:30	How to apply the new concept of high-intensity NIV W. Windisch (Cologne, Germany)	33
10:15	Clinical decision making: when to start long-term NIV following acute exacerbation M. W. Elliott (Leeds, United Kingdom)	34
11:00	Break	
11:30	Techniques of NIV used during physical activity and rehabilitation P. Wijkstra (Groningen, The Netherlands)	36
12:15	How to deal with end of life issues M. Vitacca (Lumezzane, Italy)	37

## ROOM E104-106

## SESSION 12

09:30 - 13:00

**PG3 Workshop: Genomics and proteomics of lung disease**

**Aims:** To introduce novel techniques of genomics and proteomics and present the potential of these methods in basic and disease-related lung research and clinical practice.

**HERMES syllabus links:** A.1.3 Physiology, A.1.6 Genetics, A.1.8 Pathology, B.2.1 Lung cancer, B.1 Airway diseases, B.7 Diffuse parenchymal (interstitial) lung diseases

**Type of course:** Workshop

**Target audience:** Pulmonologists, emergency medicine doctors, respiratory physicians, clinical researchers, research fellows, basic scientists, intensivists, pathologists, allergologists and trainees.

**Chairs:** P. Hiemstra (Leiden, The Netherlands), B. Crestani (Paris, France)

09:30	Genomics and system biology: where does it take us in the future? D. Kass (Pittsburgh, United States of America)	38
10:15	Proteomics approach in lung disease: the magic tool? V. Kinnula (Helsinki, Finland)	39
11:00	Break	
11:30	Genome-wide approaches to lung cancer P. Massion (Nashville, United States of America)	41
12:15	The challenge of providing proteomic tools in clinical practice G. Marko-Varga (Lund, Sweden)	42

## ROOM E107

## SESSION 14

09:30 - 13:00

**PG4 Functional lung imaging to describe regional lung function disturbances**

**Aims:** To overview the status of imaging methods that are suitable for measuring regional lung function.

**HERMES syllabus links:** B.1.4 COPD (chronic obstructive bronchitis and/or emphysema), A.1.4 Pathophysiology, B.1.1 Asthma

**Type of course:** Lecture and case based

**Target audience:** Respiratory physicians, clinical researchers and physiologists.

**Chairs:** W. De Backer (Antwerp, Belgium), G. Miserocchi (Monza, Italy)

09:30	Lung parenchyma density and airwall thickness in airway diseases H. Coxson (Vancouver, Canada)	48
10:15	Alterations in regional lung ventilation induced by bronchoconstriction: lessons from animal studies S. Bayat (Amiens, France)	49
11:00	Break	
11:30	Lung ultrasound J. Rouby (Paris, France)	51
12:15	Airway segmentation and fluid dynamics to describe regional lung function disturbances W. De Backer (Antwerp, Belgium)	52

## FORUM

## SESSION 6

09:30 - 13:00

**PG5 Asthma versus COPD: similarities and differences**

**Aims:** To discuss the similarities and differences between asthma and COPD.

**HERMES syllabus links:** A.1.4 Pathology, B.1.1 Asthma, A.1.3 Physiology, B.1.4 COPD

**Type of course:** Lecture based

**Target audience:** Pulmonologists, respiratory therapists, respiratory physicians, clinical researchers, GPs, research fellows, basic scientists, pathologists, allergologists, trainees.

**Chairs:** P. J. Barnes (London, United Kingdom), R. Dahl (Aarhus, Denmark)

09:30	Genetic studies in asthma and COPD: what have we learned? G. Brusselle (Ghent, Belgium)	8
10:15	Response to steroids P. J. Barnes (London, United Kingdom)	9

## SATURDAY SEPTEMBER 24

11:00	Break	
11:30	Role of obesity in asthma and COPD N. Hanania (Houston, United States of America)	11
12:15	New bronchodilators and inhaled steroids M. Cazzola (Rome, Italy)	12

## EMERALD

## SESSION 7

09:30 - 13:00

## PG6 Paediatric asthma: state of the art

**Aims:** Asthma is the most prevalent chronic disorder in schoolchildren in the western world, causing considerable morbidity. This PG course aims to provide participants with state-of-the-art knowledge of different topics in paediatric asthma.

**HERMES syllabus links:** B.1.1 Asthma, B.16.1 Asthma, B.17.2 Asthma, H.3 Paediatric respiratory medicine

**Type of course:** Lecture and evidence based.

**Target audience:** Pulmonologists, respiratory physicians, clinical researchers, GPs, nurses, allergologists, trainees, paediatricians and fellows in paediatric respiratory medicine

**Chairs:** M. Pijnenburg (Rotterdam, The Netherlands), K. Lodrup Carlsen (Oslo, Norway)

09:30	New insights into the pathophysiology of asthma G. Roberts (Southampton, United Kingdom)	13
10:15	Respiratory symptoms in the under-fours: asthma or not? A. Moeller (Zurich, Switzerland)	14
11:00	Break	
11:30	Asthma treatment: state of the art B. Rottier (Groningen, The Netherlands)	16
12:15	Difficult-to-treat asthma F. De Benedictis (Ancona, Italy)	17

## ROOM E102

## SESSION 13

09:30 - 13:00

## PG7 An update on pleural problems

**Aims:** To update participants knowledge on pleural problems, to orientate the diagnosis and treatment of pleural effusions (complicated or not), pneumothorax, empyema and special post-operative complications after surgical treatment.

**HERMES syllabus links:** B.11 Pleural diseases, D.2.18 Interventional techniques, H.1 Thoracic surgery

**Type of course:** Lectures, clinical cases and theoretical review

**Target audience:** Pulmonologists, respiratory physicians, GPs, intensivists, nurses, thoracic surgeons and trainees.

**Chairs:** D. Lardiniois (Basel, Switzerland), L. Casali (Terni, Italy)

09:30	Diagnostic algorithm in fused and nonfused pleural space: when to refer a patient for surgery F. Herth (Heidelberg, Germany)	43
10:15	Pleural empyema: still only a surgical problem? S. Elia (Rome, Italy)	44
11:00	Break	
11:30	An update on pleurodesis for pneumothorax and pleural effusions E. Canalis (Barcelona, Spain)	46
12:15	Specific pleural problems after surgical treatment D. Subotic (Belgrade, Republic of Serbia)	47

## ROOM G102-103

## SESSION 9

09:30 - 13:00

## PG8 Assessing respiratory muscle strength: an interactive course

**Aims:** To outline the usefulness, availability and limitations of respiratory muscle assessment.

**HERMES syllabus links:** D.1.9 Respiratory muscle assessment - interpretation, A.1 Structure and function of the respiratory system, B.10.3 Neuromuscular disease, B.12.2 Neuromuscular disorders, D.1.7 Assessment of respiratory mechanics - interpretation, H.4 Chest physiotherapy

**Type of course:** Lecture based, case and problem based, case and video based

**Target audience:** Respiratory physicians/technicians, physiologists, basic scientists, respiratory therapists, nurses, trainees and allied health professionals.

**Chairs:** I. Steenbruggen (Zwolle, The Netherlands), A. Rossi (Verona, Italy)

09:30	The nuts and bolts of respiratory muscle testing A. Rossi (Verona, Italy)	23
10:15	Volitional assessment of respiratory muscle strength J. Fitting (Lausanne, Switzerland)	24
11:00	Break	
11:30	Non-volitional measures of respiratory muscle force (clinical and research application) M. Polkey (London, United Kingdom)	26
12:15	Integration of respiratory muscle assessment in clinical practice (case reports) T. Troosters (Leuven, Belgium)	27

ROOM E108

SESSION 15

09:30 - 13:00

**PG9 Risk stratification and treatment of lower respiratory tract infections**

**Aims:** To present risk factors for clinical failure and describe the clinical application of the new markers of poor outcome in different lower respiratory tract infections (LRTIs), such as pneumonia, exacerbations of COPD and bronchiectasis.

**HERMES syllabus links:** B.3.2 Lower respiratory tract infections, B.3.3 Community-acquired pneumonia, D.2.1 Blood tests and serology relevant to respiratory medicine

**Type of course:** Lecture and case based

**Target audience:** Pulmonologists, emergency medicine doctors, respiratory physicians, clinical researchers, GPs, research fellows and intensivists.

**Chairs:** G. Rohde (Maastricht, The Netherlands), A. Torres (Barcelona, Spain)

09:30	New challenges in LRTIs: identifying patients at risk for failure F. Blasi (Milan, Italy)	53
10:15	Predictors of clinical failure in community-acquired pneumonia T. Welte (Hannover, Germany)	54
11:00	Break	
11:30	Risk stratification in bronchiectasis R. Wilson (London, United Kingdom)	56
12:15	Implications for the management and treatment of LRTI M. Tamm (Basel, Switzerland)	57

ROOM D203-204

SESSION 8

09:30 - 13:00

**PG10 Management of thoracic tumours in practice: a HERMES basic course**

**Aims:** To cover major parts of the HERMES core syllabus in thoracic oncology (Module B.2 level 3 mandatory items, as well as E1.2 and E1.3 modules regarding treatment modalities). The course is intended to provide basic knowledge to medical practitioners involved in the management of lung cancer patients.

**HERMES syllabus links:** B.2.1 Lung cancer, B.2.3 Mesothelioma, E.1.2 Chemotherapy, E.1.3. Other systemic anti-tumour therapy, H.1. Thoracic surgery (including lung transplantation)

**Type of course:** Lecture and case based

**Target audience:** Respiratory physicians, GPs, thoracic oncologists, nurses, trainees and thoracic surgeons.

**Chairs:** J. Vansteenkiste (Leuven, Belgium), N. Schoenfeld (Berlin, Germany)

09:30	Epidemiology, diagnosis, classification and staging of lung cancer A.-P. Meert (Brussels, Belgium)	18
10:15	Early stage nonsmall-cell lung cancer: therapeutic options (surgery, adjuvant and neoadjuvant therapy) G. Massard (Strasbourg, France)	19
11:00	Break	
11:30	Treatment strategy for patients with locally advanced and metastatic nonsmall-cell lung cancer J. Vansteenkiste (Leuven, Belgium)	21
12:15	Small-cell lung cancer and mesothelioma: diagnosis and management A. Scherpereel (Lille, France)	22

EMERALD

SESSION 21

14:00 - 17:30

**PG11 Update of phenotypes of asthma and COPD**

**Aims:** Asthma and COPD are not single disease entities. Both asthma and COPD, particularly COPD, include different clinical phenotypes with different risk-factor patterns and clinical presentation and have large variations in prognosis. New data are continuously presented in high-ranked journals. There is also a new debate about revision of the taxonomy of obstructive airway diseases.

**HERMES syllabus links:** B.1.1 Asthma, B.1.4 COPD/emphysema, B.1.3 Chronic bronchitis, B.6.1 Occupational asthma

**Type of course:** Case and problem based

**Target audience:** Pulmonologists, respiratory physicians, clinical researchers, GPs, allergologists and research fellows.

**Chairs:** E. Ronmark (Lulea, Sweden), R. Polosa (Catania, Italy)

14:00	How to define clinically relevant phenotypes and endotypes of asthma and COPD B. Lundback (Gothenburg, Sweden)	88
14:45	Clinically important phenotypes of severe asthma S. Wenzel (Pittsburgh, United States of America)	89
15:30	Break	
16:00	Clinically important major phenotypes of COPD P. Bakke (Bergen, Norway)	91
16:45	The role of cluster analysis in defining phenotypes of obstructive airway diseases: is there a need for a new taxonomy of obstructive airway diseases? R. Beasley (Wellington, New Zealand)	92

## SATURDAY SEPTEMBER 24

ROOM D203-204

SESSION 22

14:00 - 17:30

**PG12 TB-PAN-NET Multidrug-resistant and extensively drug-resistant tuberculosis: update on clinical management**

**Aims:** To train European physicians on multidrug-resistant (MDR) and extensively drug-resistant (XDR) tuberculosis (TB) management using standardised materials developed as part of the TB-PAN-NET Train the Trainer exercise.



**HERMES syllabus links:** B.4 Tuberculosis

**Type of course:** Case and problem based

**Target audience:** Pulmonologists, respiratory therapists, respiratory physicians, clinical researchers, GPs, research fellows, nurses, thoracic surgeons and trainees.

**Chairs:** C. Lange (Borstel, Germany), G. Bothamley (London, United Kingdom)

14:00	MDR-TB: from epidemiology to treatment design J-P. Zellweger (Fribourg, Switzerland)	93
14:45	XDR-TB in South Africa: from clinical management to public-health action K. Dheda (Capetown, South Africa)	94
15:30	Break	
16:00	Shocking stories of XDR-TB and MDR-TB from the USA T. Aksamit (Rochester, United States of America)	96
16:45	XDR-TB and MDR-TB in Europe: still a challenge A. Matteelli (Brescia, Italy)	97

ROOM G102-103

SESSION 23

14:00 - 17:30

**PG13 ERS/ACCP jointly organised: evidence-based approach to advanced respiratory care**

**Aims:** To understand the process by which evidence-based guidelines are developed and implemented into practice; to gain practical knowledge for using an evidence-based approach in managing the solitary pulmonary nodule; to learn to apply clinical evidence derived by clinical trials and the experience of real life already present in literature in treating severe asthma and pulmonary hypertension.



**HERMES syllabus links:** E.5 Audit/quality assurance of clinical practice, I.3. Evidence-based medicine, B.1.1 Asthma, B.5 Pulmonary vascular diseases

**Type of course:** Case, lecture and problem based

**Target audience:** Pulmonologists, respiratory therapists, respiratory physicians, nurses and trainees.

**Chairs:** N. Siafakas (Heraklion, Greece), A. Sharafkhaneh (Houston, United States of America)

14:00	State-of-the-art: development of evidence-based clinical practice guidelines D. Gutterman (Milwaukee, United States of America)	98
14:45	An evidence-based algorithmic approach to the solitary pulmonary nodule S. Raouf (Brooklyn, United States of America)	99
15:30	Break	
16:00	Evidence-based treatments for severe asthma P. Chanez (Marseille, France)	101
16:45	Evidence-based treatment algorithm in pulmonary arterial hypertension N. Galiè (Bologna, Italy)	102

FORUM

SESSION 20

14:00 - 17:30

**PG14 Improving skills in cardiopulmonary exercise testing**

**Aims:** At the end of the course the participants will know: the usefulness of exercise testing in clinical trials; the interpretation of clinical exercise testing; the state-of-the-art knowledge on the performance and usefulness of inspiratory capacity during exercise; and useful tips on how to measure daily living activity.



**HERMES syllabus links:** D.1.6 Exercise testing including walking tests and spiroergometry-interpretation and performance, E. 1.14 Pulmonary rehabilitation, C.1.1 Dyspnoea, D.1.7 Assessment of respiratory mechanics-interpretation

**Type of course:** Lecture and case based

**Target audience:** Pulmonologists, respiratory therapists, respiratory physicians, GPs, clinicians with an interest in cardiorespiratory medicine and clinical rehabilitation, exercise physiologists, and respiratory therapists and technicians.

**Chairs:** R. Gosselink (Leuven, Belgium), L. Puente Maestú (Madrid, Spain)

14:00	Exercise testing as an outcome P. Palange (Rome, Italy)	83
14:45	Case-based guide to cardiopulmonary exercise test interpretation R. Casaburi (Rancho Palos Verdes, United States of America)	84
15:30	Break	
16:00	Practical aspects of end-tidal lung volume measurements D. O'Donnell (Kingston, Canada)	86
16:45	Clinical measurement of daily living activity T. Troosters (Leuven, Belgium)	87

## ROOM G104-105

## SESSION 24

14:00 - 17:30

**PG15 Treatment of obstructive sleep apnoea**

**Aims:** To provide an overview of all available treatment modalities for obstructive sleep apnoea (OSA) and to discuss some of them in detail.



**HERMES syllabus links:** B.19 Sleep-related disorders, B.19.1 Obstructive sleep apnoea syndrome

**Type of course:** Case and lecture based

**Target audience:** Respiratory therapists, respiratory physicians, clinical researchers, GPs, otolaryngologist, neurologists and physiologists.

**Chairs:** W. De Backer (Antwerp, Belgium), S. Andreas (Immenhausen, Germany)

14:00	Overview of treatment modalities R. L. Riha (Edinburgh, United Kingdom)	103
14:45	Continuous positive airway pressure W. Randerath (Solingen, Germany)	104
15:30	Break	
16:00	Non-CPAP therapies J.-L. Pépin (Grenoble, France)	106
16:45	Treatment of paediatric sleep apnoea S. Verhulst (Wilrijk, Belgium)	107

## ROOM G106-107

## SESSION 25

14:00 - 17:30

**PG16 Thoracic ultrasound for physicians**

**Aims:** To understand the basic physics behind ultrasound; to understand how to operate an ultrasound machine and how to get the most from the equipment; to understand the indications, limitations and common pitfalls of thoracic ultrasound; to understand the benefits of day to day use on the respiratory ward and obtain the theoretical part of thoracic ultrasound training laid out in the HERMES.



**HERMES syllabus links:** D.3.5 Ultrasound

**Type of course:** Lecture, case and problem based

**Target audience:** Pulmonologists, respiratory therapists, respiratory physicians, intensivists, radiologists, thoracic surgeons and trainees.

**Chairs:** N. Maskell (Bristol, United Kingdom), F. Gleeson (Oxford, United Kingdom)

14:00	How to develop a pleural service N. Maskell (Bristol, United Kingdom)	108
14:45	Brief overview of the physics of ultrasound and thoracic ultrasound in practice F. Gleeson (Oxford, United Kingdom)	109
15:30	Break	
16:00	Ultrasound equipment familiarisation and thoracic ultrasound in practice N. Rahman (Oxford, United Kingdom)	111
16:45	Use of ultrasound in thoracoscopy and chest drains G. Tassi (Gussago, Italy)	112

## ROOM E107

## SESSION 28

14:00 - 17:30

**PG17 Emerging infections: educational perspectives**

**Aims:** To acquire knowledge on the role of respiratory viruses in the development of atopic disorders, namely allergic rhinitis and asthma, and to learn about signs, symptoms, diagnosis and treatment of respiratory syncytial virus infections in children. Furthermore, to learn which emerging respiratory viruses play a major role, to acquire an overview on the bacteriologic variety in chronic airway diseases.



**HERMES syllabus links:** B1.1 Asthma, B1.5 Bronchiolitis, B3.1 Upper respiratory tract infections, B3.2 Lower respiratory tract infections, B3.11 Epidemic viral infection, B17.1 Upper airway disease, B17.2 Asthma

**Type of course:** Lecture based

**Target audience:** Pulmonologists, emergency medicine doctors, respiratory physicians, clinical researchers, GPs, research fellows, intensivists, paediatricians and fellows in paediatric respiratory medicine.

**Chairs:** G. Rohde (Maastricht, The Netherlands), E. Eber (Graz, Austria)

14:00	Role of respiratory viral infections in the development of atopic conditions S. L. Johnston (London, United Kingdom)	123
14:45	Respiratory syncytial virus: a common threat J. Schwarze (Edinburgh, United Kingdom)	124
15:30	Break	
16:00	Emerging respiratory viruses N. Regamey (Bern, Switzerland)	126
16:45	Bacteriological variety in chronic airway diseases S. Elborn (Belfast, United Kingdom)	127

## SATURDAY SEPTEMBER 24

ROOM E104-106

SESSION 26

14:00 - 17:30

**PG18 Early detection of COPD: benefits and problems**

**Aims:** Under-diagnosis of COPD is a known problem, as only one out of three or four individuals with COPD have been diagnosed by the healthcare system in Europe. The course may contribute to detection of previously undiagnosed subjects with COPD. This is in many ways beneficial, as it increases the possibility of early intervention in smokers with mild COPD. There are, however, also problems both for the individuals who have so far regarded themselves as healthy, but are now labelled as having a disease, and for the healthcare system, which will have to handle a fairly large number of new patients after a screening event. The purpose of this course is to discuss the benefits and problems with spirometric screening using experiences from both screening events and population studies.

**HERMES syllabus links:** B.1.4 COPD, B.1.3 Chronic bronchitis, B.6.1 Occupational asthma

**Type of course:** Case and problem based

**Target audience:** Pulmonologists, respiratory therapists, respiratory physicians, clinical researchers, GPs, nurses and research fellows.

**Chairs:** J. Garcia Aymerich (Barcelona, Spain), B. Stallberg (Uppsala, Sweden)

14:00	The impact of undiagnosed COPD in society J. Soriano (Bunyola, Spain)	113
14:45	How to manage COPD cases identified by population studies C. Janson (Uppsala, Sweden)	114
15:30	Break	
16:00	COPD management in primary care: what are the challenges? D. Price (Cawston, United Kingdom)	116
16:45	Smoking characteristics and smoking behaviour in newly diagnosed COPD patients C. Pisinger (Glostrup, Denmark)	117

ROOM E108

SESSION 29

14:00 - 17:30

**PG19 How to set up and deliver a smoking cessation service in a pulmonology department**

**Aims:** To analyse the burden of smoking in COPD patients; to study the smoking characteristics of smokers with COPD; to show the psychological approach for smoking cessation in smokers with COPD; to show pharmacological treatments for smoking cessation in smokers with COPD; and to face smoking cessation of COPD smokers in a clinical setting.

**HERMES syllabus links:** B.1.4 COPD, B.6.8 Smoking-related disease, E.1.19 Smoking cessation

**Type of course:** Lecture and case based

**Target audience:** Pulmonologists, respiratory therapists, respiratory physicians, nurses, trainees and allied health professionals.

**Chairs:** A. Trofor (Iasi, Romania), C. Jimenez Ruiz (Madrid, Spain)

14:00	Epidemiological studies on COPD smokers D. Mannino (Lexington, United States of America)	128
14:45	Smoking characteristics of COPD smokers S. Nardini (Vittorio Veneto, Italy)	129
15:30	Break	
16:00	Psychological approach to smoking cessation in COPD smokers C. Gratzou (Athens, Greece)	131
16:45	Pharmacological treatment for smoking cessation on COPD smokers K. Fagerstrom (Kågeröd, Sweden)	132

ROOM E102

SESSION 27

14:00 - 17:30

**PG20 Biomarkers in respiratory medicine**

**Aims:** To illustrate the progress in developing new biomarkers and how to use them in clinical practice.

**HERMES syllabus links:** B.1.1 Asthma, B.1.4 COPD, B.3.2 Lower respiratory tract infections, B.7 Diffuse parenchymal (interstitial) lung diseases, B.2.1 Lung cancer

**Type of course:** Lecture based

**Target audience:** Pulmonologists, respiratory physicians, clinical researchers, GPs, research fellows and allergologists.

**Chairs:** M. Cazzola (Rome, Italy), K. Nackaerts (Leuven, Belgium)

14:00	Biomarkers in asthma and COPD R. Djukanovic (Southampton, United Kingdom)	118
14:45	Biomarkers in lower respiratory tract infections D. Stolz (Basel, Switzerland)	119
15:30	Break	
16:00	Biomarkers in pulmonary fibrosis U. Costabel (Essen, Germany)	121
16:45	Biomarkers for lung cancer screening G. Scagliotti (Orbassano, Italy)	122



## ROOM 7.1

## SESSION 35

08:30 - 08:55

**ERS Paediatric Respiratory Research Awards in Europe Ceremony (supported by Merck)**

08:30	ERS Paediatric Respiratory Research Awards Introduction G. Hedlin (Stockholm, Sweden)	137
08:35	2011 Paediatric Respiratory Research Awardee I T. Jartti (Turku, Finland)	138
08:45	2011 Paediatric Respiratory Research Awardee II S. Stanojevic (Etobicoke, Canada)	139

## FOLLOWED BY

08:55 - 10:30

**"Paediatric Grand Round - an interactive session"**

**Aims:** The audience will acquire a clinical update of genetics, presentations, assessment and care of children with challenging lung diseases. Paediatric cases will be presented. These cases will represent lung diseases specific to children but also respiratory problems in general.

**Target audience:** The session could be of interest for any clinician.

**Chairs:** A. Lindblad (Svedalen, Sweden), R. Ross-Russell (Cambridge, United Kingdom)

08:55	Cardiorespiratory failure in a term infant with pericentric inversion of chromosome 16 C. Y. Poon (Cardiff, United Kingdom)	140
09:18	A 2.5-year-old boy with fever, abdominal pain and nail abnormalities M. Ottink (Maastricht, The Netherlands)	141
09:41	A child with recurring episodes of cyanosis and cough C. Calogero (Florence, Italy)	142
10:04	A 14-year-old girl with a progressive inspiratory stridor 4 weeks after falling off a horse J. Bekhof (Zwolle, The Netherlands)	143

PAEDIATRIC

SUNDAY  
25

## AUDITORIUM

## SESSION 36

08:30 - 10:30

**Symposium: Live and let dive: diving and lung health**

**Aims:** The aims of this symposium are to:

- explain what the long-term effects are on the lungs of divers and especially on divers with large lungs;
- explain and display new tests, like NO diffusing capacity, as a necessity to include in the physical examination of the professional diver;
- give insight in the respiratory system while diving, with or without apparatus, with or without enriched mixtures.

**Target audience:** Clinicians, healthcare scientists and technologists in physiology, primary care doctors, lung function technologists and all involved in physiological diagnostics.

**Chairs:** B. G. Cooper (Birmingham, United Kingdom), R. Van Hulst (Den Helder, The Netherlands)

08:30	What we need to tell the patient with lung disease wanting to dive I. Sibley-Calder (Hornsea, United Kingdom)	144
09:00	Lung volume and diving performance in breath-holding deep divers E. Schagatay (Ostersund, Sweden)	145
09:30	Pulmonary oxygen toxicity in divers P. Van Ooij (Den Helder, The Netherlands)	146
10:00	Diving with large lungs: is the diver at risk or not? S. Watt (Aberdeen, United Kingdom)	147

PHYSIOLOGY

## ROOM 7.2

## SESSION 37

08:30 - 10:30

**Symposium: Small airways: important in COPD and severe asthma**

**Aims:** The objective of this session is to increase knowledge and awareness on the topic of small airways in asthma and in COPD. Therefore, the session will include an overview of the role of small airways in the pathophysiology of asthma and COPD in general and in specific phenotypes. A lecture will focus on the need of parameters different from the forced expiratory volume in 1s to assess small airways impairment. Finally, a review of the studies demonstrating the added benefit of treatments able to also reach the distal lung in the management of asthma and COPD patients will close the session.

**Target audience:** Clinicians, clinical researchers and pharmaceutical companies.

**Chairs:** P. J. Barnes (London, United Kingdom), P. J. Sterk (Amsterdam, The Netherlands)

08:30	The role of small airways in asthma pathophysiology Q. Hamid (Montreal, Canada)	148
09:00	The role of small airways in COPD pathophysiology J. Hogg (Vancouver, Canada)	149
09:30	Assessing small airways impairment: techniques and parameters O. Usmani (London, United Kingdom)	150
10:00	Clinical relevance and implication for therapy D. S. Postma (Groningen, The Netherlands)	151

BASIC

## SUNDAY SEPTEMBER 25

## ONCOLOGY

## ELICIUM 2

## SESSION 38

08:30 - 10:30

**Symposium: Prognostic and predictive factors in lung cancer**

**Aims:** The audience will improve its knowledge about the role of these prognostic and predictive factors, how they can predict survival, how to identify patients who will benefit from some specific treatment and how to validate such markers in clinical practice.  
**Target audience:** Physicians (chest physicians, thoracic surgeons, radiation oncologists and medical oncologists) and nurses involved in lung cancer treatment.

**Chairs:** A.-P. Meert (Brussels, Belgium), N. Schoenfeld (Berlin, Germany)

- |       |  |     |
|-------|--|-----|
| 08:30 | Independent prognostic factors and prognostic classifications: how can we predict survival on the basis of clinical, pathological and routine biological factors?<br>E. Quoix (Strasbourg, France) | 152 |
| 09:00 | What additional value for molecular biological factors and for gene profiling?<br>G. Zalcman (Caen, France)  | 153 |
| 09:30 | Predictive factors: can we identify patients who will benefit from a specific treatment?<br>M. Tsao (Toronto, Canada)  | 154 |
| 10:00 | How can we validate a predictive factor and bring it into clinical practice?<br>M. Paesmans (Brussels, Belgium)  | 155 |

## CLINICAL

## ROOM 5.1

## SESSION 39

08:30 - 10:30

**Symposium: The burden of pulmonary hypertension in respiratory disease**

**Aims:** The aims of this symposium are:

- to give an overview of the characteristic histology and cellular aspects of pulmonary hypertension secondary to respiratory diseases, with an emphasis on the role of hypoxia;
- to provide the audience with an overview of the incidence, prevalence and prognostic significance of pulmonary hypertension in several respiratory diseases;
- to obtain insight into the effects of respiratory disease on the pre-load, after-load and interventricular dependency of the right ventricle;
- to provide an overview of current pre-clinical research in the field of pulmonary hypertension secondary to lung disease.

**Target audience:** Pulmonologists, cardiologists, residents, clinical research fellows, researchers in the field of the pulmonary circulation, nurses and pathologists.

**Chairs:** A. Peacock (Glasgow, United Kingdom), J. Barbera Mir (Barcelona, Spain)

- |       |  |     |
|-------|--|-----|
| 08:30 | Pulmonary vascular remodelling in pulmonary disease<br>P. Dorfmueller (Le Plessis-Robinson, France)  | 156 |
| 09:00 | Pulmonary hypertension in various types of respiratory diseases<br>V. Cottin (Lyon, France)  | 157 |
| 09:30 | The consequence of pulmonary hypertension on the right ventricle: physiological concepts<br>A. Vonk Noordegraaf (Amsterdam, The Netherlands) | 158 |
| 10:00 | Future research directions of pulmonary hypertension secondary to lung disease<br>R. Schermuly (Giessen, Germany)                            | 159 |

## PHYSIOLOGY

## ROOM 4.1

## SESSION 40

08:30 - 10:30

**Hot Topic: Fixed ratio or other ways to define COPD: what can we learn from others?**

**Aims:** The aims of this session are to:

- review how we define (and how we should define) obstructive respiratory diseases;
- learn from the history lessons from other disciplines also dealing with diseases associated with aging and tobacco, with close to arbitrary definitions within a continuum, and with incomplete knowledge of their natural history and associated risks (hypertension, diabetes, etc.), yet with success stories in prevention, diagnosis, control and treatment.

**Target audience:** Public health practitioners and policy makers, physiologists, clinicians, primary care, technicians and allied respiratory fields, statisticians and other methodologists, and epidemiologists.

**Chairs:** J. Soriano (Bunyola, Spain), M. Miller (Birmingham, United Kingdom),  
M. Nishimura (Sapporo, Japan)

- |       |  |     |
|-------|--|-----|
| 08:30 | Current issues and gaps to extrapolate COPD population data on current global burden of diseases and future trends<br>P. Burney (London, United Kingdom) | 160 |
| 09:00 | National hypertension guidelines in the USA: a success story in disease management<br>A. Chobanian (Boston, United States of America)                    | 161 |
| 09:30 | Conspiracy theory in tobacco-related respiratory diseases<br>L. J. Clancy (Dublin, Ireland)  | 162 |
| 10:00 | Making sense of COPD definitions and data to the general practitioner, the pulmonologist and the epidemiologist<br>J. Vestbo (Hvidovre, Denmark)         | 163 |

## ELICIUM 1

## SESSION 41

08:30 - 10:30

**Oral Presentation: The COPD patient experience: care and management****Chairs: D. Field (London, United Kingdom), E. Austegard (Oslo, Norway)**

- 08:30 Lung cancer and COPD multidisciplinary teams: Exploring comparisons of patient perceptions  
C. Blunt, J. Curzio, T. Leiba, S. Elkin (London, United Kingdom) 164
- 08:45 Developing a framework for palliative interventions in respiratory services in Ireland: One year into an action research project  
B. Korn, P. White, R. O'Donnell, C. Corcoran, K. Kealy, M. Lynch, L. O'Siorain (Dublin, Ireland) 165
- 09:00 COPD patients coping with breathlessness during daily living – A multi-modal grounded theory  
L. B. Jørgensen, R. Dahl, P. U. Pedersen, K. E. Lomborg (Aarhus, Denmark) 166
- 09:15 Living with severe chronic obstructive pulmonary disease (COPD): The male carer's story  
T. Robinson, G. Fitch (Harrogate, United Kingdom) 167
- 09:30 The experience of not being able to stop smoking despite having COPD  
B. M. Eklund, S. Nilsson, L. Hedman, I. Lindberg (Lulea, Sweden) 168
- 09:45 Capturing a palliative approach to COPD nursing: Engaging with the search for meaning in suffering  
G. Hynes (Dublin, Ireland) 169
- 10:00 The individual social and financial burden of COPD  
M. Fletcher, H. Albrow, C. Jenkins, S. Walker (Warwick, United Kingdom; Concord, Australia) 170
- 10:15 The integration of respiratory services...Is it the way forward?  
A. Graham, J. Bayliss, K. Morgan (Macclesfield, United Kingdom) 171

## FORUM

## SESSION 42

08:30 - 10:30

**Oral Presentation: New insights in the treatment of idiopathic pulmonary fibrosis****Chairs: G. Raghu (Seattle, United States of America), R. M. du Bois (London, United Kingdom)**

- 08:30 Efficacy of BIBF 1120 in patients with IPF is dose-dependent: Results from the TOMORROW trial  
U. Costabel, L. Richeldi, M. Selman, D. S. Kim, K. K. Brown, K. R. Flaherty, P. W. Noble, G. Raghu, M. Brun, A. Gupta, M. Klueglic, N. Juhel, R. M. du Bois (Essen, Biberach, Germany; Modena, Italy; México, Mexico; Seoul, Republic of Korea; Denver, Ann Arbor, Durham, Seattle, United States of America; Reims, France; London, United Kingdom) 172
- 08:45 Effect of baseline FVC on preservation of lung function with BIBF 1120: Results from the TOMORROW trial  
L. Richeldi, U. Costabel, M. Selman, D. S. Kim, K. R. Flaherty, P. W. Noble, G. Raghu, A. Azuma, M. Brun, A. Gupta, M. Klueglic, N. Juhel, R. M. du Bois (Modena, Italy; Essen, Biberach, Germany; México, Mexico; Seoul, Republic of Korea; Ann Arbor, Durham, Seattle, United States of America; Tokyo, Japan; Reims, France; London, United Kingdom) 173
- 09:00 The long-term safety of pirfenidone in patients with idiopathic pulmonary fibrosis (IPF): Interim data from the RECAP extension study  
U. Costabel, C. Albera, A. Cohen, W. Bradford, T. King, Jr., P. Noble, S. Sahn, D. Valeyre, R. du Bois (Essen, Germany; Torino, Italy; Brisbane, San Francisco, Durham, Charleston, United States of America; Paris, France; London, United Kingdom) 174
- 09:15 Antifibrotic effects of sulforaphane in human lung fibroblasts from idiopathic pulmonary fibrosis  
E. Artaud-Macari, D. Goven, S. Brayer, J. Marchal-Somme, B. Crestani, A. Boutten, M. Bonay (Paris, France) 175
- 09:30 Presence of right ventricular dysfunction predicts dyspnea and quality of life improvements with sildenafil in IPF  
M. Han, D. Bach, P. Hagan, S. Schmidt, K. Flaherty, G. Toews, R. Edwards, E. Yow, K. Anstrom, F. Martinez (Ann Arbor, Durham, United States of America) 176
- 09:45 A prospective, non randomized, clinical trial to study the safety and efficacy of the endobronchial autologous infusion of adipose-derived mesenchymal stem cells (ADMSCs) in patients with idiopathic pulmonary fibrosis (IPF)  
A. Tzouveleki, P. Ntoliou, A. Ekonomou, G. Koliakos, M. Froudarakis, D. Bouros (AL, Alexandroupolis, Thessaloniki, Greece) 177
- 10:00 Effect and safety of mycophenolate mofetil in idiopathic pulmonary fibrosis. A retrospective study  
A. Tzouveleki, E. Bouros, A. Ekonomou, P. Ntoliou, G. Zacharis, G. Kolios, D. Bouros (Alexandroupolis, Greece) 178

## ROOM 5.2

## SESSION 43

08:30 - 10:30

**Oral Presentation: Early diagnosis in primary care****Chairs: S. Walker (London, United Kingdom), T. Schermer (Nijmegen, The Netherlands)**

- 08:30 Late-breaking abstract: Evaluation of CRP, PCT, clinical pulmonary infection score and pneumonia severity scores for the diagnosis and prognosis of nursing home acquired pneumonia  
I. Porfyridis, G. Georgiadis, P. Vogiazianos, A. Georgiou (Nicosia, Cyprus) 179

## SUNDAY SEPTEMBER 25

08:45	COPD case finding in primary care: A pilot study in the West Midlands, UK S. Haroon, R. Jordan, P. Adab, C. Griffin (West Bromwich, Birmingham, United Kingdom)	180
09:00	High rates of over-treatment of COPD in primary care: What risks to patients and costs to health services? H. Booth, S. Georgopoulou, H. Pinnock, H. Thornton, P. White (London, Edinburgh, United Kingdom)	181
09:15	Missed opportunities to diagnose COPD D. Price, D. Halpin, R. Winter, S. L. Hill, E. Bateman, D. Freeman, D. Ryan, M. Kearney, K. Holton, A. Burden, J. von Ziegenweidt, L. Mascarenhas, A. Chisholm, R. Jones (Aberdeen, Norwich, Exeter, London, Cambridge, Norfolk, Loughborough, Runcorn, Plymouth, United Kingdom; Cape Town, South Africa)	182
09:30	Derivation of a predicted equation for peak expiratory flow (PEF) values in adult Indian population using EU scale peak flow meter (PFM) R. Kodgule, V. Singh, B. Saicharan, R. Dhar, J. Londhe, B. Brashier, U. Singh, U. Hafiz, S. Mukherjee, S. Madas, S. Salvi, P. Koul (Pune, Jaipur, Hyderabad, Kolkota, Srinagar, India)	183
09:45	Early detection of COPD in primary care – The Copenhagen COPD screening project A. M. Lyngsø, V. Gottlieb, V. Backer, A. Frølich (Copenhagen, Denmark)	184
10:00	Usefulness of the Wells score for pulmonary embolism diagnosis in primary care. Retrospective study of 95 cases S. Feutrie, C. Dayen, H. Bentayeb, E. Lecuyer, M. Boutemy, V. Jounieaux, Y. Douadi (Saint Quentin, Amiens, France)	185
10:15	Effectiveness of continuity in “World Day of COPD” awareness campaign on case finding for COPD in target population F. Mihaltan, R. Nemes, A. Ionescu (Bucharest, Romania)	186

## ROOM 3.1

## SESSION 44

08:30 - 10:30

## Oral Presentation: Smoking cessation science

Chairs: K. Fagerstrom (Kågeröd, Sweden), S. Nardini (Vittorio Veneto, Italy)

08:30	Late-breaking abstract: Long-term efficacy of intensive behavior interventions and free medications for smoking cessation in Brazil A. T. Rocha, M. Rocha, M. Cabral, L. Macedo, F. Pompa-Filho, M. de Pinho (Salvador, Brazil)	187
08:45	Smoking prevalence and willingness to quit in newly screened Danish patients diagnosed with airway obstruction J. Dollerup, P. B. Poulsen, C. S. Ulrik, A. Løkke, J. Holt, J. L. Jensen, K. K. Andersen, R. Dahl (Ballerup, Copenhagen, Aarhus, Kgs. Lyngby, Denmark)	188
09:00	Predicted health and economic benefits of smoking cessation incorporating multiple quit attempts over a lifetime J. P. Marton, D. Getsios, R. J. Willke, N. Revankar, K. H. Zou, J. Xenakis (New York, Lexington, United States of America)	189
09:15	Long term predictors for smoking cessation in a long-term, population study at the workplace D. Stolz, A. Scherr, B. Seiffert, K. Martin, M. Anja, T. Michael (Basel, Switzerland)	190
09:30	Smoking cessation effectiveness in smokers with obstructive respiratory disease A. Florou, K. Eleftheriou, G. Patentalakis, A. Sachlas, D. Michailidis, C. Gratiou (Athens, Greece)	191
09:45	Smoking cessation treatment for COPD smokers C. A. Jimenez Ruiz, A. M. Cicero Guerrero, M. L. Mayayo Ulibarri, M. I. Cristobal Fernandez, G. Lopez Gonzalez (Madrid, Spain)	192
10:00	A placebo-controlled trial with varenicline for long term nicotine replacement product users P. Tonnesen, K. Mikkelsen (Copenhagen, Denmark)	193
10:15	Efficacy and safety of a novel nicotine mouth spray in smoking cessation: A randomized, placebo-controlled, double blind, multicenter study with 52-week follow up P. Tonnesen, H. Lauri, R. Perfekt, A. Batra, K. Mann (Copenhagen, Denmark; Helsingborg, Sweden; Mannheim, Tübingen, Germany)	194

## ROOM 3.2

## SESSION 45

08:30 - 10:30

## Oral Presentation: Mechanisms and outcomes of infective exacerbations of COPD

Chairs: M. Miravittles (Barcelona, Spain), A. Anzueto (San Antonio, United States of America)

08:30	Late-breaking abstract: Moxifloxacin (MXF) vs amoxicillin/clavulanic acid (AMC) in acute exacerbations of COPD (AECOPD): Results of a large clinical trial with a novel endpoint R. Wilson, A. Anzueto, M. Miravittles, P. Arvis, J. Alder, D. Haverstock, M. Trajanovic, S. Sethi (London, United Kingdom; San Antonio, Montville, Buffalo, United States of America; Barcelona, Spain; Loos, France; Toronto, Canada)	195
08:45	Rhinovirus infection induces secondary bacterial infection in COPD P. Mallia, J. Footitt, R. Sotero, A. Jepson, G. Oleszkiewicz, J. Aniscenko, O. M. Kon, P. Alberto, S. Johnston, G. Pelaia (London, United Kingdom; Ferrara, Catanzaro, Italy)	196
09:00	Predictors of poor outcome in severe hospitalised COPD exacerbations Z. Matkovic, M. Miravittles, N. Soler, A. Huerta, R. Domingo, A. Gabarrus, A. Torres (Barcelona, Spain)	197

09:15	Human respiratory epithelial cells acquire a long-lasting antiviral condition when exposed to interferon beta G. Gaajetaan, G. Grauls, C. Bruggeman, F. Stassen (Maastricht, The Netherlands)	198
09:30	Rhinovirus infection upregulates pentraxin-3 in smokers and COPD patients J. Footitt, P. Mallia, S. Rosa, M. B. Trujillo-Torralbo, T. Kebabze, M. Contoli, A. Papi, O. M. Kon, R. Maselli, S. Johnston (London, United Kingdom; Ferrara, Catanzaro, Italy)	199
09:45	Metagenomic analysis of lower airway microbial diversity in patients with chronic pulmonary disease E. Monso, R. Cabrera, A. Moya, A. Mira, M. Garcia, X. Pomares, J. M. Antó (Sabadell, Valencia, Barcelona, Spain)	200
10:00	Value of galactomannan in bronchoalveolar lavage fluid for invasive pulmonary aspergillosis in critically ill chronic obstructive pulmonary disease L. Ding, Y. He, F. Li, Q. Zhan (Beijing, China)	201
10:15	Reducing exacerbations in COPD with OM-85: A multicentre, double-blind, placebo-controlled trial D. Olivieri (Parma, Italy)	202

## ROOM 4.2

## SESSION 46

08:30 - 10:30

**Oral Presentation: Skeletal muscle weakness in COPD: physical (in)activity and biological markers****Chairs: M. Steiner (Leicester, United Kingdom), W. Man (Harefield, United Kingdom)**

08:30	Keynote lecture: Introduction "Exercise training: new populations, new techniques" M. Steiner (Leicester, United Kingdom)	203
08:45	Validation of the current equations to estimate peak work load based on 6-min walk distance and general demographics in COPD patients entering pulmonary rehabilitation M. J. H. Sillen, J. H. Vercoulen, A. J. van 't Hul, P. H. C. Klijn, E. F. M. Wouters, D. van Ranst, J. B. Peters, A. R. J. van Keimpema, F. M. E. Franssen, H. J. A. M. Otten, J. Molema, J. J. Jansen, M. A. Spruit (Horn, Nijmegen, Breda, Hiversum, Maastricht, The Netherlands)	204
09:00	Divergent effects of obesity on weight bearing versus non-weight bearing exercise testing in patients with COPD F. M. E. Franssen, E. P. A. Rutten, E. F. M. Wouters, P. P. van Melick, M. A. Spruit (Hornerheide, The Netherlands)	205
09:15	Investigating circulating microRNAs as potential biomarkers of quadriceps weakness in COPD A. Donaldson, A. Lewis, S. Natanek, W. Man, P. Kemp, M. Polkey (London, United Kingdom)	206
09:30	Biomarkers of systemic inflammation after two resistance training protocols in moderate clinically stable COPD A. C. Toledo, L. C. Fosco, D. Ramos, F. A. Guarnier, C. M. Pastre, G. N. B. Ferrari, R. Bonfim, A. P. Souza, R. Cecchini, E. M. C. Ramos (Presidente Prudente, Londrina, Brazil)	207
09:45	Early peripheral muscle structural and metabolic impairment in chronic obstructive pulmonary disease (COPD) patients cannot be considered as a consequence of sedentarity F. Gouzi, A. Abdellaoui, S. Sedraoui, T. Lafontaine, P. DeRigal, D. Laoudj-Chenivresse, J. Mercier, C. Préfaut, M. Hayot (Montpellier, Osséja, Lodève, France)	208
10:00	Effects of a new walking aid on 6MWD in COPD patients A. W. Vaes, J. Annegarn, K. Meijer, M. W. Cuijpers, F. M. E. Franssen, J. Wiechert, E. F. M. Wouters, M. A. Spruit (Horn, Maastricht, The Netherlands)	209
10:15	Combining physical activity monitoring and cardiac output during exercise in COPD patients with GOLD stages II-IV E. Kortianou, I. Vogiatzis, Z. Louvaris, M. Vasilopoulou, I. Nasis, V. Andrianopoulos, T. Vasilogiannakopoulou, G. Kaltsakas, M. Alchanatis, N. G. Koulouris (Athens, Lamia, Greece)	210

## EMERALD

## SESSION 47

08:30 - 10:30

**Oral Presentation: Macrophages and neutrophils in chronic lung disease****Chairs: L. Donnelly (London, United Kingdom), Y. Sibille (Yvoir, Belgium)**

08:30	COPD lung contains a sub-population of steroid-insensitive macrophages K. Chana, T. Woolley, P. Barnes, L. Donnelly (London, Loughbrough, United Kingdom)	211
08:45	LSC 2011 Abstract: Production of alpha-1 antitrypsin (AAT) by pro- and anti-inflammatory macrophages and dendritic cells E. F. A. van 't Wout, A. van Schadewijk, N. D. L. Savage, J. Stolk, P. S. Hiemstra (Leiden, The Netherlands)	212
09:00	M2 macrophages produce less type I and III IFNs upon human rhinovirus (HRV) infection and have a higher viral load than M1 macrophages A. Nikonova, S. Traub, E. Faizuloev, S. Johnston, M. Khaitov, L. Stanciu (London, United Kingdom; Moscow, Russian Federation)	213
09:15	Chemokine release by neutrophils in COPD K. Blidberg, L. Palmberg, B. Dahlén, A. S. Lantz, K. Larsson (Stockholm, Sweden)	214
09:30	A matrikine-mediated pathway of MMP-9 release from neutrophils X. Xu, P. Jackson, M. Hardison, J. E. Blalock, A. Gaggar (Birmingham, United States of America)	215
09:45	JAK/STAT inhibition improves macrophage phagocytosis of bacteria R. A. Holloway, I. Kilty, P. J. Barnes, L. E. Donnelly (London, Sandwich, United Kingdom)	216

## SUNDAY SEPTEMBER 25

- 10:00 Increased expression of phosphodiesterase 4 (PDE4) A, B and D in alveolar macrophages from chronic obstructive pulmonary disease (COPD) patients  
S. Lea, A. Metryka, F. Facchinetti, D. Singh (Manchester, United Kingdom; Parma, Italy) 217
- 10:15 Cigarette smoking augments toll-like receptor 3 expression and responses in macrophages  
A. Koarai, S. Yanagisawa, H. Sugiura, T. Ichikawa, K. Akamatsu, T. Hirano, M. Nakanishi, K. Matsunaga, Y. Minakata, M. Ichinose (Wakayama, Japan) 218

## ROOM D203-204

## SESSION 48

08:30 - 10:30

**Oral Presentation: Immunobiology in the transplanted lung: experimental and clinical evaluations****Chairs: C. Ward (Newcastle-Upon-Tyne, United Kingdom), E. Verschuuren (Groningen, The Netherlands)**

- 08:30 Late-breaking abstract: Non specific IgG replacement in lung transplantation recipients with low IgG plasma levels: Effects on survival and bronchiolitis obliterans syndrome occurrence  
C. Pison, M. France, H. Roth, C. Saint Raymond, J. Claustre, B. Camara, S. Quétant, Grenoble Lung Transplantation Group (Grenoble, France) 219
- 08:45 Significance of anti-HLA immunization in lung transplantation  
J. Reeb, P. E. Falcoz, N. Santelmo, Z. Mansour, A. C. Lejay, S. Renaud, A. Parissiadis, D. Hanau, R. Kessler, G. Massard (Strasbourg, France) 220
- 09:00 Effect of cyclosporine A in *ex vivo* reperfused pig lungs  
S. Gennai, M. Maignan, A. Brouta, R. Briot (Grenoble, La Tronche, France) 221
- 09:15 Comparison between SCOT-15® and Perfadex® as lung preservation solutions  
A. Olland, C. Meers, M. Benahmed, K. Elbayed, S. Wauters, E. Verbeken, G. Verleden, I. Namer, D. Van Raemdonck (Leuven, Belgium; Strasbourg, France) 222
- 09:30 MSK1 kinase in obliterative bronchiolitis after heterotopic tracheal transplantation  
S. Nemska, F. Daubeuf, L. Reber, N. Frossard (Illkirch, France) 223
- 09:45 Development of a novel model of obliterative bronchiolitis following orthotopic lung transplantation in the rat  
M. Vadori, F. Lunardi, D. Arben, A. De Filippis, E. Cozzi, F. Rea, F. Calabrese (Padua, Italy) 224
- 10:00 A new mouse model of bronchiolitis obliterans syndrome  
A. Vaneylen, S. De Vleschauwer, W. Jungraithmayr, S. Wauters, S. Willems, S. Verleden, A. Willems-Widyastuti, B. Vanaudenaerde, D. Van Raemdonck, E. Verbeken, G. Verleden (Leuven, Belgium; Zurich, Switzerland) 225

## ROOM G102-103

## SESSION 49

08:30 - 10:30

**Poster Discussion: Are needles really enough?****Chairs: C. Dooms (Leuven, Belgium), J. Annema (Leiden, The Netherlands)**

- P226 Late-breaking abstract: Do trainee respiratory doctors under supervision achieve acceptable results with EBUS-TBNA?  
M. Alhaji, P. J. Smith, M. Callister, P. K. Plant (Leeds, United Kingdom)
- P227 Late-breaking abstract: Radial probe endobronchial ultrasound scanning assessing invasion depth of central lesions in the tracheobronchial wall  
J. Li, P. P. Chen, Y. Huang, Z. X. Chen (Guangzhou, China)
- P228 A comparison of the combined ultrasound of the mediastinum by use of a single EBUS scope versus two scopes EBUS and EUS for lung cancer staging – A prospective study  
A. Szlubowski, P. Kocon, J. Soja, P. Talar, W. Czajkowski, L. Rudnicka-Sosin, A. Cmiel, J. Kuzdzal (Krakow, Poland)
- P229 A combined approach of endobronchial and endoscopic ultrasound-guided needle aspiration for TNM lung cancer staging – A three years experience  
A. Szlubowski, J. Soja, M. Kolodziej, W. Sosnicki, A. Obrochta, M. Jakubiak, J. Pankowski, M. Zielinski (Zakopane, Krakow, Poland)
- P230 Complication rate of EUS-FNA and EBUS-TBNA in mediastinal nodal aspiration: A meta-analysis  
A. van Breda, B. von Bartheld, J. Annema (Leiden, The Netherlands)
- P231 Is there a role of EBUS in the decision-making of endoscopic treatment for carcinoid tumors?  
K. Bostanci, J. Rojas-Solano, H. D. Becker (Heidelberg, Germany)
- P232 Endosonography for the diagnosis of lymphoma  
M. Talebian, B. von Bartheld, F. Waaijenborg, J. Annema (Leiden, The Netherlands)
- P233 The impact of rapid on site evaluation of cytological specimens on a new endobronchial ultrasound (EBUS) service  
N. Withers, L. Wheen, P. Newman, B. Patel (Exeter, United Kingdom)
- P234 Outcomes of non-diagnostic endobronchial ultrasound guided tranbronchial needle aspiration  
B. Thangakunam, B. Yung, J. Samuel, G. Bostanci, K. Pannu, D. Mukherjee (Basildon, United Kingdom)
- P235 Endobronchial ultrasound-guided transbronchial needle aspiration in the diagnosis and staging of lung cancer  
H. A. M. Mahmoud, R. C. Yung (Sohag, Egypt; Baltimore, United States of America)

- P236 Endobronchial ultrasound for the diagnosis of granulomatous disease  
F. Andreo-García, E. Cases-Viedma, J. Sanz-Santos, B. Montull-Veiga, C. Prat-Aymerich, M. J. Selma-Ferrer, E. Castella-Fernández, M. J. Artés-Martínez (Badalona, Valencia, Spain)
- P237 EBUS-TBNA learning curve for mediastinal and hilar lymph node diagnosis  
V. Leiro-Fernández, M. Botana-Rial, M. Núñez-Delgado, T. Lourido-Cebreiro, C. Represas-Represas, A. I. González-Silva, A. Fernández-Villar (Vigo, Spain)
- P238 EGFR direct sequencing on TBNA samples  
P. Bruno, M. C. Esposito, G. Osman, F. Fioretti, G. Gencarelli, A. Ricci, S. Mariotta (Roma, Italy)
- P239 EGFR mutation detected in cytological samples by lymph nodal TBNA: Our first year experience  
M. Gallo, L. Basile (Palermo, Cefalù, Italy)
- P240 A prospective study of TBNA of 63 patients from a tertiary care hospital in India  
A. Bansal, T. Chand, P. J. Kumar, R. S. Jha (New Delhi, India)
- P241 Role of endobronchial ultrasound-guided transbronchial needle aspiration in the diagnosis of bronchogenic carcinoma  
F. Alatas, E. Dundar, H. Yildirim, M. Metintas, G. Ak (Eskisehir, Turkey)
- P242 TBNA (submucosal) for diagnosis of mesothelioma (and ROSE for a faster one)  
M. Gallo, L. Basile, M. G. Stella, C. Cannizzaro (Palermo, Cefalù, Italy)
- P243 Transbronchial needle aspiration (TBNA) in the diagnosis and staging of lung cancer in a large cohort of patients  
S. Chiesa, M. Majori, R. Nizzoli, A. Guazzi, M. Anghinolfi, A. A. Chetta, A. G. Casalini (Parma, Italy)

ROOM G104-105

SESSION 50

08:30 - 10:30

**Poster Discussion: COPD management****Chairs: J. Roca (Barcelona, Spain), E. F. M. Wouters (Maastricht, The Netherlands)**

- P244 Adherence of stable COPD patients to inhaled pharmacotherapy  
S. Dumitru, K. Velentzas, E. Theodorakopoulou, M. Harikiopoulou, M. Andritsou, A. Chronaiou, Z. Sardelis, E. Kainis, P. Demertzis, E. Kosmas (Athens, Greece)
- P245 Health-related quality of life (HRQL) and patient-reported outcomes (PRO) in COPD patients receiving add-on-therapy with EPs® 7630  
H. Matthys, D. Pliskevich, T. Reineke, F. A. Malek (Freiburg i. Br., Karlsruhe, Germany; Kiev, Ukraine)
- P246 Treatment with megestrol acetate and testosterone increases body weight and muscle mass in COPD cachexia  
R. Casaburi, J. Nakata, L. Bistrong, E. Torres, M. Rambod, J. Porszasz (Torrance, United States of America)
- P247 Efficacy of roflumilast in former and current smokers with COPD  
P. Calverley, U. M. Goehring, F. Martinez, N. Barnes (Liverpool, London, United Kingdom; Konstanz, Germany; Ann Arbor, United States of America)
- P248 Impact of roflumilast treatment on the rate and duration of exacerbations and overall steroid load in patients with COPD  
P. Calverley, F. Martinez, U. M. Goehring, D. Bredenbröker, M. Brose, C. Vogelmeier (Liverpool, United Kingdom; Ann Arbor, United States of America; Konstanz, Marburg, Germany)
- P249 Acupuncture improves nutritional status and BODE index in patients with chronic obstructive pulmonary disease: A randomized, placebo-controlled trial  
M. Suzuki, M. Fukui, T. Shiota, K. Endo, S. Sato, K. Aihara, M. Matsumoto, S. Suzuki, R. Itotani, M. Ishitoko, M. Takemura, Y. Hara, H. Kagioka, M. Hirabayashi, S. Muro, M. Mishima (Kyoto, Osaka, Hyogo, Japan)
- P250 Time to desaturation under 1 minute on the 6m walking test predicts chronic domiciliary oxygen therapy in COPD patients  
L. Eiroa, R. Pitti, J. M. Palmero, J. M. Figueira, A. I. Velázquez, M. Alonso, J. Rodríguez, C. Ramos, I. De Lorenzo, J. L. Trujillo, A. Tauroni, I. García Talavera (Santa Cruz de Tenerife, Spain)
- P251 Tiotropium vs salmeterol in GOLD II and maintenance-naïve COPD patients: Subgroup analyses of POET-COPD™ trial  
K. M. Beeh, C. Vogelmeier, M. P. M. H. Rutten-van Mölken, K. F. Rabe, T. Glaab, F. Rühmkorf, H. Schmidt, L. M. Fabbri (D 65187 Wiesbaden, Marburg, Grosshansdorf, Ingelheim, Germany; Rotterdam, The Netherlands; Modena, Italy)
- P252 Efficient deposition and absorption of orally inhaled indacaterol in the lungs  
R. Lock, D. Price, S. Khindri, R. Woessner, M. Weiss, H. Hara, I. Pylvaenaenen, G. Kaiser (Horsham, United Kingdom; Basel, Switzerland)
- P253 Subclinical cardiac dysfunction in moderate to severe chronic obstructive pulmonary disease (COPD) patients  
A. Verduri, B. Bottazzi, C. Leuzzi, R. D'Amico, P. Boschetto, M. G. Modena, A. Mantovani, L. M. Fabbri, B. Beghé (Modena, Milan, Ferrara, Italy)
- P254 Effects of ambulatory oxygen on exercise capacity and vital parameters in patients with COPD  
B. Yilmaz, E. Yentürk, D. Yenibertiz, F. Atabay, E. Tuncay (Istanbul, Turkey)
- P255 Time required for PaO<sub>2</sub> equilibration in patients with severe COPD  
L. P. Thomsen, S. Rees, U. Weinreich (Aalborg, Denmark)

## SUNDAY SEPTEMBER 25

- P256 Determinants of dyspnea in stable COPD patients  
T. Perez, J. L. Paillasseur, P. R. Burgel, N. Roche, on behalf the Initiatives BPCO Group (Lille, Clamart, Paris, France)
- P257 Screening for malnutrition in outpatients with pulmonary diseases  
S. Schokker, J. S. Vroegop, L. H. Steenhuis, R. Aalbers (Groningen, The Netherlands)
- P258 Comparison of costs of community-acquired pneumonia (CAP) treatment at patients with and without bronchial obstruction  
Y. Mostovoy, H. Demchuk (Vinnytsia, Ukraine)
- P259 Comorbidities in stage IV COPD patients  
V. Areias, S. Carreira, M. Anciães, P. Pinto, C. Bárbara (Lisboa, Faro, Portugal)
- P260 Fenspiride as complementary anti-inflammatory agent in therapy of patients with chronic obstructive pulmonary disease  
T. Pertseva, O. Myronenko, N. Klimenko (Dniprppetrovsk, Ukraine)
- P261 What are the factors related to misdiagnosis of COPD?  
J. Bourbeau, D. O'Donnell, F. Maltais, D. Marciniuk, A. Benedetti, S. Aaron, K. Chapman, R. Cowie, M. Fitzgerald, P. Hernandez, D. Sin, W. Tan, For CanCOLD Study Group (Montreal, Kingston, Quebec, Saskatoon, Ottawa, Toronto, Calgary, Halifax, Vancouver, Canada)

ROOM G106-107

SESSION 51

08:30 - 10:30

## Poster Discussion: Allergen immunotherapy and anti-immunoglobulin E

Chairs: N. Barnes (London, United Kingdom), G. Canonica (Genoa, Italy)

- P262 Sublingual allergen extract immunotherapy in a rush pattern to reach the maintenance faster  
N. Pandey, S. Kole, S. P. Singh, S. Gupta Bhattacharya, S. Kumar, S. Bibhore (Kolkata, Purnia, Kol, Panchkulla, India)
- P263 Adherence to sublingual immunotherapy in patients allergic to mites  
B. Omarjee, B. Tanguy, Z. Rida (Saint Denis, Reunion)
- P264 Maintenance schedule of subcutaneous allergoid immunotherapy more efficacious than pre-seasonal  
E. Swiebocka, G. Siergiejko, P. Rapiejko, Z. Siergiejko (Bialystok, Warsaw, Poland)
- P265 Pollen asthma treatment: Comparative efficacy study  
I. Sygaieva (Kyiv, Ukraine)
- P266 Omalizumab in asthmatics with IgE levels > 700 IU/ml  
D. Maselli, J. Diaz, J. Peters (San Antonio, United States of America)
- P267 Effects of add-on omalizumab therapy on airway wall thickening in severe persistent asthma  
M. Hoshino (Atami, Japan)
- P268 Decreasing dose protocol for omalizumab treatment in oral corticosteroid allergic asthma patients  
C. Domingo, X. Pomares, J. Casabon, A. García, C. Veigas, C. Montón (Sabadell, Spain)
- P269 The APEX study: Retrospective review of oral corticosteroid use in omalizumab-treated severe allergic asthma patients in UK clinical practice  
N. Barnes, on behalf of the APEX Study Investigators, A. Radwan (London, Frimley/Camberley, United Kingdom)
- P270 OPURIT: Omalizumab-protected ultra rush specific immunotherapy in severe asthmatic patients with house dust mite allergy  
T. Harr, P. Schmid-Grendelmeier (Zurich, Switzerland)
- P271 Biological monitoring of cellular effects of omalizumab with basophil degranulation test (BAT) in severe asthma  
A. Stanzola, F. Perna, D. Radicella, C. Vitale, E. Carpentieri, C. Russo, M. Sofia (Naples, Italy)
- P272 The APEX study: A retrospective review of responses of severe allergic asthma patients to omalizumab on continuous or non-continuous oral corticosteroids in UK clinical practice  
R. Niven, on behalf of the APEX Study Investigators, A. Radwan (Manchester, Frimley/Camberley, United Kingdom)
- P273 Real-life effectiveness of omalizumab in patients with severe persistent allergic (IgE-mediated) asthma: Pooled data from 3 UK centres  
M. Britton, T. Howes, A. Boland, D. Saralaya, D. Hepburn, M. Nordstrom, K. Welham, K. Regan, I. Kasujee (Chertsey, Colchester, Bradford, Frimley/Camberley, United Kingdom)
- P274 ROMA (registry omalizumab in Malaga): Study of 84 patients  
M. Martin-Rebollo, A. Padilla Galo, M. P. Alfonso, L. N. Alberto (Malaga, Marbella, Spain)
- P275 Long-term treatment with monoclonal antibodies anti-IgE in severe asthma: Follow-up of ten patients  
M. Brunori, R. Pierro, F. S. Pignataro, G. Onelli (Rome, Italy)
- P276 Omalizumab and voriconazole in allergic bronchopulmonary aspergillosis (A case series)  
A. Stanzola, E. Carpentieri, C. Vitale, M. Pitassi, N. Sorrentino, M. Sofia (Naples, Italy)
- P277 Eligibility for treatment with omalizumab in Italy and Germany  
R. Buhl, G. W. Canonica, A. Gili Marco, C. Ruland (Mainz, Germany; Genoa, Italy; Basel, Switzerland)
- P278 Cytokine production profile of T-lymphocytes and frequency of regulatory T-cells in patients with allergic asthma receiving anti-IgE therapy  
I. Haasler, J. Weber, I. Bellinghausen, S. Korn, J. Saloga, R. Buhl, C. Taube (Mainz, Germany)



ROOM E104-106

SESSION 52

08:30 - 10:30

**Poster Discussion: Physical activity, methodology and impact****Chairs: H. Watz (Grosshansdorf, Germany), I. Vogiatzis (Athens, Greece)**

- P279 Seasonal variability in physical activity in healthy subjects and patients with early COPD  
M. Hornikx, H. Van Remoortel, K. De Bent, E. Balligand, C. Burtin, D. Langer, R. Gosselink, M. Decramer, ERS President 2011, W. Janssens, T. Troosters (Leuven, Belgium)
- P280 Profile of physical activity in daily life in apparently healthy smokers and its correlate factors  
K. Furlanetto, L. C. Mantoani, D. Kovelis, J. Zabatiero, M. Proença, J. A. Felici, F. Pitta (Londrina, Presidente Prudente, Brazil)
- P281 Physical activity and its relation with exercise capacity in patients with early COPD  
H. Van Remoortel, M. Hornikx, K. De Bent, E. Balligand, C. Burtin, D. Langer, R. Gosselink, M. Decramer, ERS President 2011, W. Janssens, T. Troosters (Leuven, Belgium)
- P282 Differences between active and inactive patients with COPD  
F. Monteiro, N. Hernandes, T. Sant'Anna, C. Camillo, R. Vitorasso, V. Probst, F. Pitta (Londrina, Brazil)
- P283 Respiratory and peripheral muscle strength, functional capacity, dyspnea and physical activity levels in patients with COPD and heart failure  
M. Bosnak-Guclu, S. Savci, D. Inal-Ince, H. Arikan, E. Tülümen, M. Saglam, N. Vardar-Yagli, N. Kokturk, K. Aytemir, L. Cöplü, L. Tokgözoğlu (Ankara, Izmir, Turkey)
- P284 Daily physical activity in patients with COPD living alone or not: Preliminary results  
N. A. Hernandez, T. Sant'Anna, C. A. Camillo, A. C. Verceze, V. C. Escobar, V. S. Probst, F. Pitta (Londrina, Presidente Prudente, Brazil)
- P285 Activity limitations in patients with chronic obstructive pulmonary disease  
N. Vardar-Yagli, M. Saglam, S. Savci, H. Arikan, D. Inal-Ince, E. Calik, T. Duger, M. Bosnak-Guclu, L. Coplu (Ankara, Izmir, Turkey)
- P286 Short-term effects of using pedometers to increase daily physical activity in smokers  
D. Kovelis, J. Zabatiero, K. Furlanetto, L. Mantoani, M. Proença, F. Pitta (Londrina, Brazil)
- P287 Performance of activities of daily living and inspiratory muscle force in patients with COPD  
E. Regueiro, R. Basso, M. Jamami, D. Costa, V. Pires Di Lorenzo (São Carlos, São Paulo, Brazil)
- P288 Differences in the quality of life of patients with chronic obstructive pulmonary disease living in different countries  
J. M. De S Pinto, M. T. A. P. Morano, A. M. M. Nogueiras, J. R. González, A. S. Araújo, J. I. C. Arenillas (Salamanca, Spain; Fortaleza, Brazil)
- P289 Validation of two physical activity fatigue questionnaires in cystic fibrosis children  
M. Seborga, T. Del Corral, J. Percegon, N. Trujillo, L. Hernández, J. Vilaró (Barcelona, Madrid, Spain)
- P290 Physical activity behaviour and sedentary time in persons with obstructive sleep apnea and obesity  
H. Igelström, M. Emtner, E. Lindberg, P. Åsenlöf (Uppsala, Sweden)
- P291 A new model to understand the concept physical activity for patients with COPD  
F. Dobbels, K. Rudell, E. Drost, J. Elberse, C. Feridou, C. De Jong, N. Karlsson, P. De Boer, T. Van der Molen, A. Frei, K. Kulich, M. Puhan, T. Troosters (Leuven, Belgium; Sandwich, Edinburgh, United Kingdom; Amersfoort, Groningen, The Netherlands; Athens, Greece; Mölndal, Sweden; Zurich, Basel, Switzerland)
- P292 Assessing COPD patients' experiences of physical activity: From qualitative interviews to item generation  
F. Dobbels, E. Drost, J. Elberse, C. Feridou, C. De Jong, L. Jacobs, A. Frei, M. Puhan, P. De Boer, T. Van der Molen, K. Williams, H. Pinnock, T. Troosters, N. Karlsson, K. Kulich, K. Rudell (Leuven, Belgium; Edinburgh, Sandwich, United Kingdom; Amersfoort, Groningen, The Netherlands; Athens, Greece; Zurich, Basel, Switzerland; Mölndal, Sweden)
- P293 Experiences of physical activity are similar among European COPD patients  
C. De Jong, C. Feridou, E. Drost, J. Elberse, L. Jacobs, K. Rudell, P. De Boer, T. Van der Molen, F. Dobbels (Groningen, Amersfoort, The Netherlands; Sandwich, Edinburgh, United Kingdom; Athens, Greece; Leuven, Belgium)

ROOM E102

SESSION 53

08:30 - 10:30

**Poster Discussion: Tuberculin skin tests, interferon-gamma release assays and beyond****Chairs: M. Ruhwald (Copenhagen, Denmark), D. Goletti (Rome, Italy)**

- P294 The specificity of a new skin test – Diaskintest (recombinant protein CFP10-ESAT6) in patients with sarcoidosis and non-tuberculous pulmonary diseases  
N. Makarova, L. Slogotskaya, E. Kupavtseva, S. Borisov (Moscow, Russian Federation)
- P295 DIASKINTEST as a screening method at the mass child health examination for tuberculosis in Russia  
V. AksenoVA (Moscow, Russian Federation)
- P296 Differential diagnosis of outpatient pneumonia and infiltrative pulmonary tuberculosis by the Diaskintest®  
B. Borodulin, E. Borodulina, O. Kozlova, L. Povalyaeva (Samara, Russian Federation)

## SUNDAY SEPTEMBER 25

- P297 The role of two stage tuberculin skin test in screening of household contacts  
R. Rifat, C. Peplow, K. Sadiqullah, H. Kunst (Birmingham, United Kingdom; , United States of America)
- P298 Variables responsible for tuberculin positivity of household contacts of sputum positive TB cases  
A. Khan, T. Sahasrabudhe (Pune, India)
- P299 Tuberculin skin test size and risk of tuberculosis: A 12-year follow-up of contacts of TB cases  
O. Morán-Mendoza, M. FitzGerald, K. Elwood, D. Patrick (Kingston, Vancouver, Canada)
- P300 Comparative study of the usefulness of TST and three interferon-gamma release assays (IGRAs) for the differential diagnosis of pulmonary tuberculosis  
Y. Kobashi, M. Abe, K. Mouri, Y. Obase, N. Miyashita, M. Oka (Kurashiki, Japan)
- P301 Comparison between tuberculin skin testing and QuantiFERON Gold-In Tube for detection of latent tuberculosis in rheumatoid arthritis patients in a TB endemic population  
A. Socaci, G. Nini, E. Borgazi, V. Tudorache (Timisoara, Arad, Constanta, Romania)
- P302 IGRA and TST predictive value in immunocompetent close contacts  
T. Gomes, S. Campinha, A. Carvalho, R. Duarte (Vila Nova de Gaia, Vila Real, Oporto, Portugal)
- P303 QFT-GIT vs TST in diagnosis of latent tuberculosis infection (LTBI) in Poland  
K. Kruczak, M. Sanak, E. Nizankowska-Mogilnicka (Cracow, Poland)
- P304 Indeterminate IGRA results in routine practice  
P. Kewin, T. Inkster, B. Choo-Kang (Glasgow, United Kingdom)
- P305 Detection of IFN- $\gamma$  responses for diagnosis of tuberculosis infection in chronic inflammatory disease patients  
I. Latorre, S. Minguez, M. Vilavella, J. Diez, J. M. Carrascosa, C. Prat, L. Mateo, E. Domenech, V. Ausina, C. Ferrandiz, J. Dominguez (Badalona, Bellaterra, Spain)
- P306 Screening of HIV positive TB contacts with an interferon-gamma release assay in a congregate setting in Singapore  
S. H. Gan, S. Bhoopalan, K. W. KhinMar, T. M. Barkham, C. B. E. Chee, Y. T. Wang (Singapore, Singapore)
- P307 The role of interferon- $\gamma$  release assay (IGRA) testing in a UK teaching hospital  
M. Mason, J. Dickens, D. Aguilar, G. Hardingham, R. Phillips (Norwich, Cambridge, United Kingdom)
- P308 QuantiFERON testing in British army recruits  
R. Mackley, D. Spence (Northallerton, United Kingdom)
- P309 Evaluating the use of the interferon- $\gamma$  response to mycobacterium tuberculosis (MTB) specific antigens to diagnose latent tuberculosis infection in patients with chronic inflammatory joint and skin diseases  
C. Martyn-Simmons, J. Mee, R. Groves, H. Milburn (London, United Kingdom)
- P310 Use of an IGRA test for prescribing latent TB infection therapy in 374 immigrants applying to night shelters in Milan, Italy  
A. Reposi, M. Delmastro, M. Ferrarese, G. Ferrara, N. Murgia, L. Codecasa (Milan, Terni, Perugia, Italy)
- P311 Practical use of quantiferon test in Norway's largest TB-clinic  
S. Vahedi, C. Brunborg, A. M. B. Kran (Oslo, Norway)

ROOM D201-202

SESSION 54

08:30 - 10:30

## Poster Discussion: Genetic and environmental risk factors for respiratory diseases

Chairs: J. Anto (Barcelona, Spain), I. Annesi-Maesano (Paris, France)

- P312 Late-breaking abstract: The forgotten majority: A decrease in persistent but not in intermittent asthma in a large cohort study  
S. Cohen, E. Picard, N. Berkman, C. Springer, A. Avital (Jerusalem, Israel)
- P313 Rare alpha-1 antitrypsin mutations in the Irish population  
T. Carroll, C. O'Connor, G. O'Brien, K. Molloy, I. Ferrarotti, M. Luisetti, S. O'Neill, G. McElvaney (Dublin, Ireland; Pavia, Italy)
- P314 *Hedgehog-interacting protein (HHIP)* polymorphisms and chronic obstructive pulmonary disease (COPD)  
S. E. Budulac, D. S. Postma, P. S. Hiemstra, T. S. Lapperre, J. M. Vonk, W. Timens, H. A. Smit, H. M. Boezen (Groningen, Leiden, Utrecht, The Netherlands)
- P315 Low-fat yoghurt intake in pregnancy associated with increased child asthma and allergic rhinitis risk: A prospective cohort study  
E. Maslova, T. I. Halldorsson, M. Strom, S. F. Olsen (Boston, United States of America; Copenhagen, Denmark; Reykjavik, Iceland)
- P316 Heritability of atopic dermatitis: Population study and systematic review  
V. Naeser, K. Ohm Kyvik, A. Skytthe, V. Backer, S. Francis Thomsen (Copenhagen, Odense, Denmark)
- P317 Remission of childhood asthma in adolescence – A longitudinal study  
M. Andersson, L. Hedman, S. Sundberg, A. Bjerg, B. Forsberg, E. Rönmark (Luleå, Umeå, Sweden)
- P318 In-depth analysis of time trends in adult asthma and rhinitis  
A. Bjerg, L. Ekerljung, R. Middelveld, S. E. Dahlen, B. Forsberg, K. Franklin, K. Larsson, J. Lotvall, I. S. Olafsdottir, K. Toren, B. Lundback, C. Janson (Lulea, Gothenburg, Stockholm, Umea, Uppsala, Sweden)
- P319 Intake of alcohol and risk of adult-onset asthma  
S. Lieberoth, V. Backer, K. O. Kyvik, A. Linneberg, S. F. Thomsen (Copenhagen, Odense, Denmark)

- P320 Aspirin-induced asthma is strongly associated with obesity: Large population study on prevalence and risk factors  
J. Eriksson, L. Ekerljung, A. Bossios, E. Rönmark, J. Lötvall, B. Lundbäck (Gothenburg, Luleå, Sweden)
- P321 Physical fitness and asthma development in a random population during three decades. The Odense schoolchild study  
J. Guldborg-Møller, F. Rasmussen (Odense, Denmark; Lefcoca, Turkey)
- P322 Impact of physical inactivity on cognitive function in adults with obstructive lung disease (OLD)  
P. Katz, L. Julian, J. Singer, T. A. Omachi, S. Gregorich, J. Balmes, P. D. Blanc (San Francisco, United States of America)
- P323 Decrease in smoking is related to a decrease in respiratory symptoms but not asthma  
H. Backman, L. Hedman, S. Sundberg, B. Lundbäck, E. Rönmark (Lulea, Gothenburg, Umea, Sweden)
- P324 Recent trends in COPD prevalence in Italy  
S. Cerrai, S. Maio, G. Sarno, S. Baldacci, M. Fresta, F. Martini, A. Angino, F. Di Pede, F. Pistelli, L. Carrozzi, G. Viegi (Pisa, Palermo, Italy)
- P325 COPD among non-smokers  
S. Hagstad, L. Ekerljung, A. Lindberg, E. Rönmark, B. Lundbäck (Gothenburg, Luleå, Umeå, Sweden)
- P326 BMI and risk for death in COPD  
B. Eriksson, E. Rönmark, A. Lindberg, H. Müllerova, B. Lundbäck (Gothenburg, Luleå, Umeå, Sweden; Greenford, United Kingdom)
- P327 Cured meats consumption increases risk of readmission in COPD patients  
J. De Batlle, M. Mendez, I. Romieu, E. Balcells, M. Benet, D. Donaire-Gonzalez, J. J. Ferrer, M. Orozco-Levi, J. M. Antó, J. Garcia-Aymerich (Barcelona, Spain; Lyon, France)
- P328 Professional exposure to goats increases the risk of pneumonic-type lung adenocarcinoma. Results of the IFCT-0504-epidemiology study  
N. Girard, D. Magnin Lutringer, J. Cadranet, C. Leroux, E. Quoix, V. Cottin, D. Del Signore, M.P. Lebitasy, G. Cordier, P. Vanhems, J.F. Mornex (Lyon, Paris, Strasbourg, France)

## ROOM 7.1

## SESSION 57

10:45 - 12:45

**Sadoul Lecture followed by session "How to get the best signal?"**

**Aims:** The aim of this session is to highlight the importance of not only measuring spirometry correctly, but also to expose how interpreting the results not only has implications for the patients prognosis and interventions, but how this can have an enormous impact on the costs to public health if we get it wrong. There is a common perception that accurate spirometry and the use of lower limit of normal is a minor technical issue, when in fact it has enormous implications for the Respiratory Roadmap in the future.

**Target audience:** All Assemblies members, consultants, nurses, allied health professionals, pharmaceutical representatives, and public health and occupational health professionals.

**Chairs:** B. G. Cooper (Birmingham, United Kingdom), T. Sigsgaard (Aarhus, Denmark)

- 10:45 Sadoul Lecture: "Spirometry: from health to disease"  
M. Miller (Birmingham, United Kingdom) 329
- 11:30 Exercise testing: getting the best signal  
T. Troosters (Leuven, Belgium) 330
- 11:55 Gas transport: getting the best signal in critical care  
W. Tunnicliffe (Birmingham, United Kingdom) 331
- 12:20 Lung mechanics: getting the best signal  
M. Polkey (London, United Kingdom) 332

## AUDITORIUM

## SESSION 58

10:45 - 12:45

**Symposium: Idiopathic pulmonary fibrosis: translational insights and therapeutic approaches**

**Aims:** The aims of this symposium are to:

- summarise the results of clinical trials of novel approaches to treatment and how it could change current management of idiopathic pulmonary fibrosis (IPF) patients;
- learn about translational research in lung fibrosis and better understand the main mechanisms of action implicated in the pathogenesis of IPF.

**Target audience:** Pulmonary physician scientists and scientists involved in or interested in basic science or translational research in IPF, clinicians treating patients with lung fibrosis who desire better understanding of the biology of the disease and pulmonary fellows interested in developing their clinical or research career involving lung fibrosis.

**Chairs:** T. Geiser (Bern, Switzerland), V. Cottin (Lyon, France), A. Azuma (Tokyo, Japan)

- 10:45 What we know from current and past clinical trials  
R. M. du Bois (London, United Kingdom) 333
- 11:15 Extracellular matrix metabolism and matrix metalloproteinases: what to treat?  
G. Laurent (London, United Kingdom) 334
- 11:45 The complex role of growth factors: how to regulate this pro-fibrotic switch?  
B. Crestani (Paris, France) 335
- 12:15 Cellular plasticity and tissue remodelling in lung fibrosis  
O. Eickelberg (Munich, Germany) 336

## SUNDAY SEPTEMBER 25

## BASIC/INFECTION

## ROOM 7.2

## SESSION 59

10:45 - 12:45

**Symposium: Macrophage heterogeneity in respiratory diseases**

**Aims:** The audience will learn about novel findings in the field of immunology and how these apply to respiratory diseases. They will learn what we already know about the role of macrophages in respiratory diseases, where our challenges lie and the exciting new possibilities for the development of new drugs.

**Target audience:** Researchers in respiratory science, clinicians and the pharmaceutical industry.

**Chairs:** P. Hiemstra (Leiden, The Netherlands), J. Van Ginderachter (Brussels, Belgium)

10:45	Macrophage activation and polarisation F. Martinez Estrada (Oxford, United Kingdom)	337
11:15	Macrophage heterogeneity in the pathogenesis of COPD L. Donnelly (London, United Kingdom)	338
11:45	Alternativeley activated macrophages as cause or effect in asthma B. Melgert (Groningen, The Netherlands)	339
12:15	Foamy macrophages and the progression of tuberculosis F. Altare (Nantes, France)	340

## INTENSIVE CARE

## ELICIUM 2

## SESSION 60

10:45 - 12:45

**Symposium: Mechanical ventilation: the American versus the European approach**

**Aims:** The aims of this session are to compare:

- European and American approaches to noninvasive ventilation;
- European and American approaches to weaning from mechanical ventilation.

**Target audience:** Physicians, allied respiratory professionals, and anyone involved with mechanical ventilation.

**Chairs:** S. Nava (Bologna, Italy), S. Giordano (Irving, United States of America)

10:45	Noninvasive ventilation in the USA D. Hess (Boston, United States of America)	341
11:15	Noninvasive ventilation in Europe M. Chatwin (London, United Kingdom)	342
11:45	Weaning from mechanical ventilation in the USA T. Myers (Cleveland, United States of America)	343
12:15	Weaning from mechanical ventilation in Europe P. Navalesi (Vercelli, Italy)	344

## BASIC/CLINICAL

## ROOM 5.1

## SESSION 61

10:45 - 12:45

**Symposium: Novelties in lung transplantation**

**Aims:** The aim is to give a broad overview of novelties in the field of lung transplantation.

**Target audience:** Clinicians, surgeons and anaesthetists.

**Chairs:** F. Meloni (Pavia, Italy), A. Boehler (Zurich, Switzerland)

10:45	Ex-vivo reconditioning of potential donor lungs A. Fisher (Newcastle, United Kingdom)	345
11:15	Bronchiolitis obliterans syndrome: still a valid terminology to reflect chronic rejection? M. Iversen (Copenhagen, Denmark)	346
11:45	Recent insights into chronic lung allograft dysfunction using genomics, proteomics and animal models M. Hertz (Minneapolis, United States of America)	347
12:15	Treatment of bronchiolitis obliterans syndrome: where are we now? G. Verleden (Leuven, Belgium)	348

EPIDEMIOLOGY/  
ENVIRONMENT

## ROOM 4.1

## SESSION 62

10:45 - 12:45

**Symposium: New advances in smoking cessation**

**Aims:** The aims of the symposium are to:

- review and update the specific psychological and pharmacological approaches for smoking cessation;
- provide expert opinion on how to implement simple and effective smoking cessation programmes in the clinical setting of a respiratory diseases department;
- allow participants to gain more advanced knowledge on smoking cessation approaches in difficult categories of smokers such as hard-core smokers with smoking-related pulmonary disorders.

**Target audience:** Pulmonologists, physiologists and allied respiratory professionals.

**Chairs:** A. Trofor (Iasi, Romania), C. Jimenez Ruiz (Madrid, Spain)

10:45	What kind of psychological support can physicians provide? P. Hajek (London, United Kingdom)	349
11:15	What kind of pharmacological combination therapies are useful for smoking cessation? P. Tonnesen (Gentofte, Denmark)	350

- 11:45 How to optimise the efficacy of pharmacological treatments?  
K. Fagerstrom (Kågeröd, Sweden) 351
- 12:15 How do you manage hard-core smokers with smoking-related pulmonary disorders?  
Y. Martinet (Vandoeuvre-Les-Nancy, France) 352

## ELICIUM 1

## SESSION 63

10:45 - 12:45

## Oral Presentation: Mechanism and monitoring of airway diseases

Chairs: A. Spanevello (Tradate, Italy), I. Pavord (Leicester, United Kingdom)

- 10:45 Longitudinal analysis of lung function decline with eosinophilic clustering in severe asthma  
C. Newby, J. Agbetile, B. Hargadon, P. Bradding, A. Wardlaw, I. Pavord, R. Green, C. Brighling, S. Siddiqui (Leicester, United Kingdom) 353
- 11:00 Sputum eosinophilia identifies systemic corticosteroid responsiveness in acute exacerbations of COPD  
M. Bafadhel, S. McKenna, S. Terry, V. Mistry, M. Pancholi, D. Lomas, P. Venge, M. Barer, S. Johnston, I. Pavord, C. Brighling (Leicester, London, Cambridge, United Kingdom; Uppsala, Sweden) 354
- 11:15 Tapering oral corticosteroids in severe asthma is associated with a decrease in fractional exhaled nitric oxide  
S. Hashimoto, A. Ten Brinke, J. K. Sont, A. H. Zwinderman, P. J. Sterk, E. H. Bel (Amsterdam, Leeuwarden, Leiden, The Netherlands) 355
- 11:30 Sputum eosinophil levels in corticosteroid-treated asthmatic patients  
E. Bacci, M. Latorre, S. Cianchetti, F. Dente, A. Di Franco, L. Melosini, F. Novelli, E. Camici, P. Paggiaro (Pisa, Italy) 356
- 11:45 A double-blind randomised control trial of peripheral blood eosinophils to direct prednisolone use in COPD exacerbations  
M. Bafadhel, S. McKenna, S. Terry, V. Mistry, M. Pancholi, D. Lomas, P. Venge, M. Barer, S. Johnston, I. Pavord, C. Brighling (Leicester, London, Cambridge, United Kingdom; Uppsala, Sweden) 357
- 12:00 Relationship between exhaled nitric oxide and exacerbation frequency in COPD patients: A longitudinal study  
B. Antus, S. Soter, I. Barta (Budapest, Hungary) 358
- 12:15 Expression of superoxide dismutases and its association to inflammatory cells in small airways of COPD patients  
B. T. Olejnicka, S. Marklund, C. Andersson, M. Mori, A. Rubaj, C. G. Löfdahl, J. Erjefält (Lund, Umeå, Sweden; Lublin, Poland) 359
- 12:30 Disease expression in patients with primary ciliary dyskinesia (PCD), CF and pancreatic sufficiency (CF-PS) and insufficiency (CF-PI)  
M. Cohen-Cymberknob, N. Simanovski, N. Hiller, A. Gileles Hillel, D. Shoseyov, E. Kerem (Jerusalem, Israel) 360

## FORUM

## SESSION 64

10:45 - 12:45

## Oral Presentation: Cystic fibrosis: New aspects of diagnosis, inflammation and detecting exacerbation

Chairs: F. Ratjen (Toronto, Canada), S. Cunningham (Edinburgh, United Kingdom)

- 10:45 Intestinal current measurement (ICM) as a new diagnostic test for cystic fibrosis (CF)  
M. Cohen-Cymberknob, Y. Yaakov, E. Kerem, D. Shoseyov, J. Rivlin, L. Bentur, E. Picard, M. Aviram, M. Wilschanski (Jerusalem, Haifa, Beer Sheva, Israel) 361
- 11:00 Regulation of ion transporters and airway surface dynamics by lipoxin in cystic fibrosis bronchial epithelium  
M. Al-Alawi, V. Verriere, R. Chostello, V. Urbach, B. Harvey (Dublin, Ireland) 362
- 11:15 Deficient production of IFN-stimulated genes upon rhinovirus infection in cystic fibrosis airway epithelial cells  
E. Kieninger, M. Varelle, M. P. Alves, B. S. Kopf, T. Geiser, S. L. Johnston, M. R. Edwards, N. Regamey (Bern, Switzerland; London, United Kingdom) 363
- 11:30 Association of FCN1 and FCN2 gene polymorphisms with earlier onset of chronic *Pseudomonas aeruginosa* (*Pa*) colonisation in cystic fibrosis (CF) patients  
F. Haerynck, K. Van Steen, T. Cattaert, B. Loeys, S. Van Daele, P. Schelstraete, F. De Baets (Ghent, Liege, Antwerp, Belgium) 364
- 11:45 The polyamine spermine is increased in cystic fibrosis airway secretions  
H. Grasemann, D. Shehnaz, P. Pencharz, F. Ratjen (Toronto, Canada) 365
- 12:00 Regulation of corticosteroid binding globulin (CBG) in the inflammatory context of cystic fibrosis  
J. Taytard, C. Rebeyrol, D. Debray, A. Clement, N. Chignard, P. Le Rouzic (Paris, France) 366
- 12:15 The value of lung function monitoring by means of a home monitor in patients with cystic fibrosis  
C. Robroeks, Q. Jöbsis, H. Hendriks, E. Dompeling (Maastricht, The Netherlands) 367
- 12:30 Indicators of pulmonary exacerbation in adults with cystic fibrosis (CF)  
F. McCourt, B. O'Neill, I. Logan, J. Abbott, E. McCrum-Gardner, S. McKeown, J. Bradley, S. Elborn (Jordanstown, Preston, Belfast, United Kingdom) 368

## SUNDAY SEPTEMBER 25

ROOM 5.2

SESSION 65

10:45 - 12:45

**Oral Presentation: Endoscopic lung volume reduction: hype or hope?****Chairs: M. Phillips (Perth, Australia), A. Mehta (Cleveland, United States of America)**

- 10:45 Single session bilateral endoscopic lung volume reduction therapy in advanced upper lobe and homogeneous emphysema using a tissue sealant  
M. Kramer, O. Fruchter, M. N. Maimon, Y. Refaely (Petach Tikva, Be'er-Sheeva, Israel) 369
- 11:00 Sustained efficacy from 3 to 6 months following bronchoscopic thermal vapor ablation (BTVA) in the treatment of heterogeneous emphysema  
F. Herth, G. Snell, P. Hopkins, K. Baker, C. Witt, M. H. Gotfried, A. Valipour, M. Wagner, F. Stanzel, J. Egan, S. Kesten, A. Ernst (Heidelberg, Berlin, Nuremberg, Hemer, Germany; Melbourne, Chermshire, Australia; Iowa City, Phoenix, Tustin, Boston, United States of America; Vienna, Austria; Dublin, Ireland) 370
- 11:15 Lung volume reduction coil treatment for patients with severe heterogeneous emphysema, a multicenter feasibility trial  
D. J. Slebos, K. Klooster, M. Hetzel, F. Stanzel, G. Deslee, C. Witt, W. Geseirich, R. Kessler, M. Pfeifer, S. Blaas, J. Hetzel, C. H. Marquette, F. Herth (Groningen, The Netherlands; Stuttgart, Hemer, Berlin, Gauting, Donaustauf, Tuebingen, Heidelberg, Germany; Reims, Strasbourg, Nice, France) 371
- 11:30 One year follow-up in the European multicenter study for the treatment of advanced emphysema with bronchial valves  
V. Ninane, M. Bezzi, C. Geltner, X. Gonzalez (Brussels, Belgium; Brescia, Italy; Innsbruck, Austria; Redmond, United States of America) 372
- 11:45 Study of the use of Chartis® pulmonary assessment system to optimize subject selection for endobronchial lung volume reduction (ELVR) – Results and subgroup analysis  
D. Gompelmann, D. J. Slebos, J. Ficker, F. Reichenberger, B. Schmidt, L. Ek, R. Eberhardt (Heidelberg, Nuremberg, Giessen, Halle, Germany; Groningen, The Netherlands; Lund, Sweden) 373
- 12:00 6-month follow-up in patients with advanced homogeneous emphysema treated with endobronchial lung sealant therapy  
A. Valipour, F. Herth, R. Eberhardt, F. Stanzel, R. Bonnet, J. Behr, C. Marquette, M. Kramer (Vienna, Austria; Heidelberg, Hemer, Bad Berka, Bochum, Germany; Nice, France; Petach Tikva, Israel) 374
- 12:15 Efficiency of the endo-bronchial volum reduction treatment for severe heterogeneous emphysema  
T. Ece, A. Erer, Z. Bingol, T. Hürkal, A. Tokar, F. Ece (Istanbul, Turkey) 375

ROOM 3.1

SESSION 66

10:45 - 12:45

**Oral Presentation: Altered mechanisms during exercise in disease****Chairs: P. Laveneziana (Paris, France), L. Puente Maestú (Madrid, Spain)**

- 10:45 Late-breaking abstract: Impaired carbon monoxide diffusion capacity is the strongest predictor of exercise intolerance, even in moderate COPD  
A. Farkhooy, A. Malinowski, H. Arnardottir, M. Emtner, H. Hedenström, C. Janson (Uppsala University, Sweden) 376
- 11:00 ACE gene polymorphisms, COPD exercise tolerance and response to acute oxygen  
N. Heraud, C. Préfaut, J. Desplan, A. Varray (Osseja, Montpellier, France) 377
- 11:15 Influence of abdominal volume regulation on chest wall hyperinflation during constant work rate exercise in patients with COPD  
L. Takara, M. Nunes, T. Cunha, F. Queiroga, M. Rodrigues, E. Meda, M. Oliveira, G. Chiappa, L. E. Nery, J. A. Neder (São Paulo, Brazil) 378
- 11:30 Effect of heliox breathing on locomotor and respiratory muscle oxygen delivery during exercise in COPD patients with or without dynamic hyperinflation  
Z. Louvaris, V. Andrianopoulos, M. Vasilopoulou, E. Cherouveim, S. Spetsioti, A. Aliverti, H. Habazettl, P. Wagner, S. Zakyntinos, I. Vogiatzis (Athens, Greece; Milan, Italy; Berlin, Germany; San Diego, La Jolla, United States of America) 379
- 11:45 Effects of oxygen supplementation on cerebral oxygenation during progressive exercise in patients with COPD and healthy controls  
M. F. Oliveira, M. K. Rodrigues, L. S. Takara, E. C. Treptow, T. M. Cunha, J. A. Neder (São Paulo, Brazil) 380
- 12:00 Locomotor muscle afferents contribute to ventilatory control during exercise in heart failure patients  
T. Olson, M. Joyner, J. Eisenach, T. Curry, B. Johnson (Rochester, United States of America) 381
- 12:15 Comparing cardiopulmonary responses to incremental exercise in patients with chronic thromboembolic pulmonary hypertension and idiopathic pulmonary arterial hypertension  
R. P. Ramos, F. M. Valois, J. Moura, T. Melatto, E. Ferreira, J. S. O. Arakaki, L. E. Nery, J. A. Neder (São Paulo, Brazil) 382
- 12:30 Do respiratory mechanics abnormalities contribute to exertional dyspnoea in patients with pulmonary hypertension?  
P. Laveneziana, G. Garcia, F. Nicolas-Jilwan, C. Straus, X. Jaïs, L. Savale, D. Montani, O. Sitbon, G. Simonneau, M. Humbert, T. Similowski (Paris, Clamart, France) 383

## ROOM 3.2

## SESSION 67

10:45 - 12:45

**Oral Presentation: Treatment of lung cancer****Chairs: Y. Nakanishi (Fukuoka, Japan), E. Quoix (Strasbourg, France)**

- 10:45 Late-breaking abstract: Relationship of aquaporin 1, 3 and 5 expression in lung cancer cells to cellular differentiation, invasive growth and metastasis potential  
M. Shimasaki, Y. Machida, Y. Takahara, H. Toga, Y. Ueda (Kahoku-gun, Japan) 384
- 11:00 A phase III randomised trial assessing the activity of first-line ifosfamide-gemcitabine (IG), a non-platinum chemotherapy (CT), in patients with advanced non-small cell lung cancer (NSCLC)  
T. Berghmans, J. J. Lafitte, M. Paesmans, A. P. Meert, A. Scherpereel, N. Leclercq, J. P. Sculier (Brussels, Belgium; Lille, France) 385
- 11:15 Gemcitabine sensitizes lung cancer cells to Fas /Fas ligand system-mediated killing  
L. Siena, E. Pace, M. Ferraro, C. Di Sano, M. Melis, M. Profita, M. Gjomarkaj (Palermo, Italy) 386
- 11:30 Non-small cell lung cancer treatment by inhalation of Erbitux and gemcitabine in murine model  
Y. Schwarz, O. Merimsky, A. Starr (Tel Aviv, Israel) 387
- 11:45 Use of erlotinib in management of advanced non-small cell lung cancer (NSCLC): The Czech Republic experience with the treatment of a non-selected population of 1735 patients (pts)  
J. Skrickova, M. Pesek, P. Zatloukal, V. Kolek, F. Salajka, L. Koubkova, J. Krejci, M. Tomiskova, G. Ivona, M. Hrcnariik (Brno, Plzen, Praha, Olomouc, Hradec Kralove, Czech Republic) 388
- 12:00 Gefitinib selectively targets non-small cell lung cancer cells through inhibition of Forkhead box M1  
N. Xu, C. Bai (Shanghai, China) 389
- 12:15 Carboplatin-paclitaxel alone or with bevacizumab in stage III-IV lung adenocarcinoma  
G. Hardavella, S. Nikolakopoulou, I. Kostara, G. Hillas, M. Alchanatis, F. Vlastos (Athens, Greece) 390
- 12:30 Intraoperative photodynamic therapy as a part of combined radical treatment for stage III NSCLC  
A. Akopov, A. Rusanov, G. Papayan, V. Molodtcova, M. Urtenova, I. Chistiakov, N. Kazakov (Saint-Petersburg, Russian Federation) 391

## ROOM 4.2

## SESSION 68

10:45 - 12:45

**Oral Presentation: Multidrug-resistant tuberculosis****Chairs: W. Yew (Hong Kong, China), R. Duarte (Vila Nova De Gaia, Portugal)**

- 10:45 Keynote lecture: MDR/XDR-TB European plan  
H. Kluge (Copenhagen, Sweden) 392
- 11:00 The 2011 update of the World Health Organization guidelines for the programmatic management of drug-resistant tuberculosis  
D. Falzon, E. Jaramillo, H. Schünemann, Guidelines Development Group (Geneva, Switzerland; Hamilton, Canada) 393
- 11:15 Treatment outcomes for multidrug-resistant tuberculosis (MDR-TB) patients in Africa  
F. Dennis, S. S. Monica, J. Ernesto, Z. Matteo, N. Wilfred, K. Bah (Geneva, Switzerland; Harare, Zimbabwe; Brazzaville, Congo) 394
- 11:30 Increasing TB drug resistance in Moldova during the 2006-2010  
V. Crudu, V. Botnaru, E. Stratan, O. Golisceva, L. Carchilan, N. Moraru, V. Lesan, V. Soltan, G. Blagodeteleva (Chisinau, Republic of Moldova) 395
- 11:45 Drug-resistant tuberculosis in Belarus: Results of the first representative survey  
A. Skrahina, A. Zalutskaya, S. Evgeni, A. Astrauko, W. Van Gemert, S. Hoffner, V. Rusovich, M. Zignol, H. Hurevich (Minsk, Republic of Belarus; Stockholm, Sweden; Geneva, Switzerland) 396
- 12:00 First second line anti-tuberculosis drug resistance survey in Romania  
D. Homorodean, I. Husar, C. Popa, F. Cojocaru, E. Ibraim (Cluj-Napoca, Bucharest, Romania; Dieppe, France) 397
- 12:15 Successful treatment of multidrug-resistant tuberculosis through a binational consortium  
R. Laniado-Laborin, K. Moser, J. Estrada-Guzman, H. Perez (Tijuana, Mexicali, Mexico; San Diego, United States of America) 398
- 12:30 Tuberculosis in household contacts of multidrug-resistant tuberculosis patients  
L. Grandjean, A. Crossa, R. Gilman, D. Moore (London, United Kingdom; Boston, Baltimore, United States of America) 575

## EMERALD

## SESSION 69

10:45 - 12:45

**Oral Presentation: Diagnosis and predictors of COPD exacerbation****Chairs: C. Vogelmeier (Marburg, Germany), O. C. Burghuber (Vienna, Austria)**

- 10:45 Late-breaking abstract: Factors associated with medication adherence in patients with COPD  
I. Koca Kalkan, A. F. Kalpaklioglu (Kirikkale, Turkey) 399
- 11:00 Diagnosis of COPD exacerbations on hospital admission: Results of the European COPD audit  
S. Hartl, J.L. López-Campos, M. Roberts, M. Haan, R. Breyer-Kohansal, W. Jansen, N. Miculinic, N. Tzanakis,

## SUNDAY SEPTEMBER 25

- S. McCormack, J. Chorostowska, I. Solovic, F. Pozo-Rodríguez, D. Stolz, M. Polati, S. Welham, C. Farrugia Jones, F. Mihaltan (Vienna, Austria; Seville, Madrid, Spain; London, United Kingdom; Lausanne, Basel, Switzerland; Leuven, Belgium; Zagreb, Croatia; Marsaxlo, Malta; Dublin, Ireland; Warsawa, Poland; Vysne Hagy, Slovakia; Aydin, Turkey; Bucharest, Romania) 400
- 11:15 Any detectable admission cardiac troponin I level is associated with increased risk of early death following COPD exacerbations  
P. R. Vamadevan, A. W. Hitchings, T. S. Grewal, D. Ahnood, E. H. Baker (London, United Kingdom) 401
- 11:30 Value of prothrombin fragments F1+2 in the diagnosis of pulmonary embolism in patients hospitalized due to COPD exacerbation  
M. Beckerman, P. Weiner (Hadera, Israel) 402
- 11:45 Association of the severe, frequent exacerbation phenotype with exercise capacity, sputum bacteriology and copeptin circulating levels in COPD  
D. Stolz, W. Boersma, R. Louis, F. Blasi, B. Milenkovic, A. Lacombe, J. Aerts, V. Heinen, M. Pappalettera, K. Kostikas, C. Prat, E. Wouters, A. Torres, T. Welte, M. Tamm (Basel, Switzerland; Alkmaar, Breda, Maastricht, The Netherlands; Liege, Belgium; Milan, Italy; Serbia, Republic of Serbia; Badalona, Barcelona, Spain; Larissa, Greece; Hannover, Germany) 403
- 12:00 Predictors of hospitalisation and death with acute exacerbations of COPD  
A. Soltani, D. Reid, S. Quinn, I. Almond, R. Wood-Baker, E. H. Walters (Hobart, Brisbane, Adelaide, Melbourne, Australia) 404
- 12:15 Baseline characteristics of patients with frequent exacerbations in the POET-COPD™ trial  
L. M. Fabbri, C. Vogelmeier, M. P. M. H. Rutten-van Mölken, K. F. Rabe, T. Glaab, F. Rühmkorf, H. Schmidt, K. M. Beeh (Modena, Italy; Marburg, Grosshansdorf, Ingelheim, Wiesbaden, Germany; Rotterdam, The Netherlands) 405
- 12:30 BNP is a predictor of mortality following COPD exacerbations  
M. Knolle, D. Meek, L. Pearce, S. Tarrant, C. Laroche, T. Pulimood (Bury St. Edmunds, United Kingdom) 406

## ROOM D203-204

## SESSION 70

10:45 - 12:45

## Oral Presentation: Treatments for pulmonary hypertension in human and experimental models

Chairs: P. Hassoun (Baltimore, United States of America), M. Humbert (Clamart, France)

- 10:45 Pharmacological treatment with tetrahydrobiopterin in pulmonary hypertension  
B. Francis, M. Wilkins, L. Zhao (London, United Kingdom) 407
- 11:00 A role for ST2/IL-33 signalling in fibroblast proliferation utilising a novel transgenic mouse model of pulmonary hypertension  
C. Church, A. Mahmood, C. McSharry, D. Xu, A. Peacock, D. Welsh (Glasgow, United Kingdom) 408
- 11:15 Safety and efficacy of bosentan in combination with sildenafil in pulmonary arterial hypertension: The COMPASS-3 study  
F. Torres, H. Gupta, F. Soto, M. Park, N. Frey, S. Murali, R. Benza (Dallas, Birmingham, Sheboygan, Baltimore, San Francisco, Pittsburgh, United States of America) 409
- 11:30 PDGF and Src tyrosine kinases in pulmonary arterial smooth muscle cells: Effects of dasatinib and nilotinib on pulmonary vascular remodeling  
S. S. Pullamsetti, E. Burghäusen, S. Dabral, E. Butrous, A. Tretyn, R. Savai, H. A. Ghofrani, N. Weissmann, F. Grimminger, W. Seeger, S. Rosenkranz, R. T. Schermuly (Bad Nauheim, Giessen, Cologne, Germany; Kent, United Kingdom) 410
- 11:45 Effects of riociguat in severe experimental pulmonary hypertension  
B. Kojonazarov, M. Lang, N. Weissmann, F. Grimminger, J. P. Stasch, W. Seeger, H. A. Ghofrani, R. Schermuly (Giessen, Wuppertal, Bad Nauheim, Germany) 411
- 12:00 Inhibition of microRNA-17 improves lung and heart function in experimental pulmonary hypertension  
S. Pullamsetti, C. Doebele, A. Fischer, R. Savai, B. Kojonazarov, B. Dahal, H. Ghofrani, N. Weissmann, F. Grimminger, A. Bonauer, W. Seeger, A. Zeiher, S. Dimmeler, R. Schermuly (Bad Nauheim, Frankfurt, Giessen, Germany) 412
- 12:15 Imatinib in pulmonary arterial hypertension, a randomized, efficacy study (IMPRES)  
M. Hoepfer, R. J. Barst, N. Galié, P. Hassoun, N. Morrell, A. Peacock, G. Simonneau, V. Tapson, F. Torres, K. Lu, D. Quinn, H.A. Ghofrani (Hannover, Giessen, Germany; New York, Baltimore, Durham, Dallas, East Hanover, Cambridge, United States of America; Bologna, Italy; Cambridge, Glasgow, United Kingdom; Orsay, France) 413

## ROOM G102-103

## SESSION 71

10:45 - 12:45

## Poster Discussion: Recent developments in COPD

Chairs: J. H. J. Vernooy (Maastricht, The Netherlands), P. Rocco (Rio De Janeiro, Brazil)

- P414 LSC 2011 Abstract: The role of lipoxin A4 in the chronic obstructive pulmonary disease  
L. Balode, G. Strazda, N. Jurka, U. Kopeika, A. Kislina, M. Beinare, M. Bukovskis, I. Taivans (Riga, Latvia)



- P415  
LSC 2011 Abstract: Inflammation and COPD: Protective effect of the recombinant anti-protease trappin-2 A62L, on lung epithelium  
A. Tanga, A. Saidi, S. Dallet-Choisy, M. L. Zani, T. Moreau (Tours, France)
- P416 Plant proteinase inhibitor from *enterolobium contortisiliquum* (*EcTI*) attenuates elastase-induced pulmonary inflammatory and remodeling alterations in mice  
O. A. Theodoro, Jr., R. Almeida-Reis, L. V. Oliva, B. T. Martins-Oliveira, D. S. S. Mello, F. D. T. Q. S. Lopes, C. M. Prado, P. M. G. Paiva, E. A. Leick, M. V. Brito, M. M. Martins, M. L. V. Oliva, I. F. L. C. Tibério (São Paulo, Diadema, Brazil)
- P417 Impaired respiratory function in mice exposed to cigarette smoke  
S. Jonasson, B. Koch, L. Elfsmark, C. Akfur, A. Bucht (Umeå, Sweden)
- P418 Different effects of mesenchymal stem cells on elastase-induced pulmonary emphysema and macrophages activity in rats  
A. Averyanov, A. Konoplyannikov, A. Chernyaev, V. Petrov, O. Kuzovlev, A. Bruchovetsky, O. Konoplyannikova, E. Agaeva, N. Kulagina (Moscow, Obninsk, Russian Federation)
- P419 IL-10 resolves the neutrophilic inflammation in mice exposed to cigarette smoke  
M. Higaki, H. Wada, T. Yasutake, S. Mikura, K. Honda, M. Nakamura, M. Niikura, F. Kobayashi, S. Kamiya, H. Goto (Tokyo, Japan)
- P420 Activation of the inflammasome pathway during exacerbations of COPD  
P. Sobradillo, R. Faner, N. Soler, E. Ballester, J. I. Aróstegui, J. Yagüe, J. Manel, A. Agusti (Barcelona, Spain)
- P421 Effect of budesonide on fibroblast-mediated collagen gel contraction and degradation  
Q. Fang, N. Schulte, X. Wang, A. Miller-Larsson, E. Wieslander, X. Liu, M. Toews, S. Rennard (Omaha, United States of America; Lund, Sweden)
- P422 Serum lipid profile and iron content in serum and pulmonary tissue in experimental pulmonary emphysema  
N. Minic, S. Zunic-Bozinovski, S. Zunic, S. Vucicevic, I. Milovanovic, D. Djarmati, G. Djordjevic-Denic (Belgrade, Republic of Serbia)
- P423 Inhibition of  $\beta$ -adrenoceptors alleviated mucus secretion and emphysema in cigarette smoke exposed rat model  
F. Wang, J. H. Li, B. He (Beijing, China)
- P424 AMPK signalling regulates Nrf2 localization and activity via sirtuins in a monocytic cell line  
L. Nunez Naveira, N. Mercado, K. Ito (London, United Kingdom)
- P425 Molecular markers involved in susceptibility to lung injury after acute exposure to tobacco smoke in different mouse strains. Fluorescent molecular in vivo imaging application  
S. Pérez-Rial, L. del Puerto-Nevado, A. Girón-Martínez, R. Terrón-Expósito, N. González-Mangado, G. Peces-Barba (Madrid, Spain)
- P426 Effects of a protease inhibitor from the tick *rhipicephalus boophilus microplus* in an experimental model of emphysema  
C. Olivo, L. Neves, J. Lourenço, F. Almeida, C. Prado, I. Tibério, A. Tanaka, S. Sasaki, M. Martins, F. Lopes (São Paulo, Brazil)
- P427 HDAC2-independent anti-inflammatory effects of budesonide in human lung fibroblasts  
X. Wang, A. Nelson, A. Miller-Larsson, E. Wieslander, X. Liu, S. Rennard (Omaha, United States of America; Lund, Sweden)
- P428 The nuclear liver X receptor and its role in smoke exposed rat lungs  
A. Kratzer, J. Salys, M. Zamora, L. Taraseviciene-Stewart (Denver, United States of America)
- P429 Insulin-dependent PI3-Kinase/Akt and ERK signaling pathways inhibit TLR3-mediated HBEC apoptosis  
T. Numata, J. Araya, S. Fujii, H. Hara, N. Takasaka, Y. Yumino, M. Kawaiishi, J. Hirano, M. Odaka, T. Morikawa, K. Nakayama, K. Kuwano (Tokyo, Japan)
- P430 Overexpression of RAGE in lungs of patients with COPD: A contributor to oxidative stress in COPD  
L. Chen, L. Liu, T. Wang, F. Wen (Chengdu, China)
- P431 MMP-mediated regulation of EnaC channel in pleural mesothelium  
E. Apostolidou, F. Malli, E. Paraskeva, K. Gourgoulianis, P. A. Molyvdas, C. Hatzoglou (Larissa, Greece)

ROOM G104-105

SESSION 72

10:45 - 12:45

**Poster Discussion: Genetics of airway diseases and treatment****Chairs: I. Wouters (Utrecht, The Netherlands), V. Schluenssen (Arhus, Denmark)**

- P432 LSC 2011 Abstract: Association of IL-9 and IL-4R genes and their phenotypes among Sudanese with asthma  
A. Gundi, O. A. A. Musa, S.M Hiba, I.E Montasir (Khartoum, Sudan)
- P433 Polymorphisms in *toll-like receptor 4* are associated with severity but not susceptibility for asthma in a Chinese Han population  
Q. Zhang, F. H. Qian, L. F. Zhou, G. Z. Wei, K. S. Yin (Changzhou, Zhenjiang, Nanjing, China)
- P434 Vitamin D binding protein variants associate asthma susceptibility in a Chinese Han population  
F. Li, S. Willis-Owen, Y. Zhang, J. Gao (Beijing, China; London, United Kingdom)

## SUNDAY SEPTEMBER 25

- P435 Is there a relation between asthma associated gene polymorphisms and recurrent wheezing in preschool children? The ADEM study  
E. M. M. Klaassen, M. Quaak, K. D. G. van de Kant, Q. Jöbssis, O. C. P. van Schayck, F. J. van Schooten, J. Penders, G. H. Koppelman, G. van Eys, E. Dompeling (Maastricht, Groningen, The Netherlands)
- P436 Association of ADAM33 gene polymorphisms with asthma in Volga-Ural region of Russia  
Y. Fedorova, A. Karunas, G. Gimalova, L. Guryeva, N. Ramazanova, S. Levashova, L. Muhtarova, R. Murzina, E. Etkina, S. Zagidullin, E. Khusnutdinova (Ufa, Russian Federation)
- P437 Use of partition tree to Identify genetic marker combination predicting bronchodilator response by inhaled short-acting beta 2 agonist  
S. Y. Kang, T. W. Kim, J. W. Jung, W. J. Song, M. H. Kim, H. R. Kang, S. H. Cho, K. U. Min, H. W. Park (Seoul, Republic of Korea)
- P438 Association between beta2 adrenergic receptor (*ADRβ2*) haplotype pair and severe asthma in an Australian caucasian population  
L. P. Chung, S. Baltic, S. Temple, G. Waterer, P. Thompson (Perth, Australia)
- P439 Pharmacogenetic control of bronchial obstruction in steroid depend asthma (SDBA) patients  
M. Simakova, Z. Mironova, V. Trofimov, V. Belash, E. Iantchina, M. Dubina (St. Petersburg, Russian Federation)
- P440 Effect of *ADRB2* polymorphism on the airway response to cold air in asthmatics  
D. E. Naumov, J. M. Perelman, V. N. Maksimov, V. P. Kolosov, X. Zhou, Q. Li (Blagoveschensk, Novosibirsk, Blagoveshchensk, Russian Federation; Chongqing, China)
- P441 Role of -511C>T and +3953C>T SNPs of *IL1B* gene as risk factors of COPD and bronchial asthma in Bulgarian population  
D. Dimov, T. Vlaykova, M. Kurzawski, J. Lapczuk, A. Wajda, V. Ilieva, A. Koychev, G. Prakova, V. Dimitrov, M. Drozdziak (Stara Zagora, Sofia, Bulgaria; Szczecin, Poland)
- P442 Association of IL-1β (-511 C>T) and IL1RN 86-bp VNTR polymorphism susceptibility with chronic obstructive pulmonary disease between male and female patients in northern Indian population  
R. K. Shukla, S. Kant, S. Bhattacharya, B. Mittal (Lucknow, India)
- P443 Matrix metalloproteinase (*MMP*) -1 and -3 promoter polymorphisms in Bulgarian patients with COPD  
T. Vlaykova, D. Dimov, M. Kurzawski, A. Wajda, J. Lapczuk, V. Ilieva, A. Koychev, G. Prakova, M. Drozdziak (Stara Zagora, Bulgaria; Szczecin, Poland)
- P444 VEGF gene polymorphisms are associated with post-natal lung function development  
E. Kreiner-Møller, K. Bønnelykke, H. Bisgaard (Copenhagen, Gentofte, Denmark)
- P445 Predictive role of *MMP-2* genetic variants on severe hematologic toxicity of NSCLC patients treated with first-line, platinum-based chemotherapy  
X. Wang, X. Zhao, W. Wu, Z. Gao, J. Wu, D. H. Garfield, D. Lu, C. Bai (Shanghai, China; San Diego, La Jolla, United States of America)
- P446 *EGFR*, *HER2* and *KRAS* mutational status according to adenocarcinoma patterns/sub-types  
L. Carvalho, M. J. d'Aguiar, L. Teixeira, P. Couceiro, A. Alarcão, V. Sousa, M. Silva (Coimbra, Portugal)
- P447 Genetic analysis of two novel mucin-like genes in the disease-susceptibility locus for diffuse panbronchiolitis  
M. Hijikata, I. Matsushita, H. Ito, J. Ohashi, S. Homma, Y. Taguchi, A. Azuma, S. Kudoh, N. Keicho (Tokyo, Ibaraki, Nara, Japan)
- P448 Genetic epidemiology of hereditary hemorrhagic telangiectasia complicated with pulmonary arteriovenous malformation  
T. Shioya, M. Satake, A. Tamaki, R. Morita, K. Sato, M. Sano, M. Hashimoto, A. Koizumi (Akita, Kobe, Kyoto, Japan)
- P449 Genetic polymorphisms in *TNF* genes and tuberculosis in cystic fibrosis patients  
G. Shmarina, A. Pukhalsky, N. Kapranov, V. Alioshkin (Moscow, Russian Federation)

ROOM G106-107

SESSION 73

10:45 - 12:45

## Poster Discussion: Pleural diseases and pneumothorax

Chairs: S. Elia (Rome, Italy), I. Cordos (Bucharest, Romania)

- P450 Value of the video assisted thoracoscopy in the diagnosis of the pleural effusions – Our experience  
C. Savu, C. Petreanu, V. Grigorie, N. Galie, E. Tabacu (Bucharest, Romania)
- P452 Significance of computed tomography in diagnostic of pleural content and the choice of the method of surgical treatment  
M. Rusetskaya, V. Petukhov (Vitebsk, Republic of Belarus)
- P453 Tuberculous empyema thoracis surgical perspective. A tertiary care center experience  
A. R. Uraizee, J. A. Memon, A. R. Bhagwani, A. A. Poonawala, I. A. Farhan, S. A. Husain (Karachi, Pakistan; Kent, United Kingdom)
- P454 Analysis of lung function test at patients with pleural empyema treated with thoracotomy and decortications  
G. Kondov, R. Colanceski, Z. Spirovski, S. Jovev, B. Kondov (Skopje, FYROM)
- P455 Malignant pericardial effusion and pericardial-peritoneal window  
C. Guimarães, C. Lares Santos, A. Correia de Matos, A. Figueiredo, F. Barata (Coimbra, Portugal)
- P456 Thoracic empyema: Medical and surgical treatment  
I. Ladeira, C. Ribeiro, M. Brito, T. Shiang (Vila Nova de Gaia, Portugal)

- P457 Fibrous cavernous pulmonary tuberculosis (FCT) complicated by spontaneous pneumothorax (SP)  
S. Massavirov, K. Mukhamedov, A. Muzrabekov, F. Ismailova, N. Djurayev (Tashkent, Uzbekistan)
- P458 Do we follow the national guidelines for ICD (intercostal chest drain) insertion: A study in a district general hospital (DGH) in East of England  
V. Sirpa, Y. Htwe, K. Falzon, S. Durairaj (Kings Lynn, United Kingdom)
- P459 Outpatient management of primary spontaneous pneumothorax using small-bore catheter: A prospective study  
M. Massongo, B. Chahine, C. H. Marquette, A. Scherpereel (Lille, Douai, Nice, France)
- P460 Primary spontaneous pneumothorax size: Comparison of international guidelines  
S. Tarique, J. Noble, A. Gallen, M. Jones (Abergavenny, London, United Kingdom)
- P461 Does surgical treatment of spontaneous pneumothorax stop progression of COPD or not?  
A. Pichurov, A. Petrunkin, O. Orzheshkovsky, E. Sokolovich, P. Yablonski (Saint-Petersburg, Russian Federation)
- P462 Pulmonary emphysematous dysplasia in young adults  
S. Gorbunkov, O. Lukina, L. Kirukhina, A. Akopov (Saint-Petersburg, Russian Federation)
- P463 Change in perfusion patterns and its correlation to clinical outcomes following lung volume reduction surgery (LVRS) in COPD as assessed by single photon emission computer tomography (SPECT)  
H. Hoffmann, D. Lardinois, A. Mols, A. M. Balestra, F. Forrer, M. Tamm, D. Stolz (Basel, Switzerland)
- P464 Does lung volume reduction surgery improve chronotropic incompetence in chronic obstructive pulmonary disease (COPD) patients?  
H. Armstrong, M. Bartels, B. Thomashow (New York, United States of America)
- P465 Ultrasound guided pleural aspiration and chest drain insertion – A prospective study  
W.Y. Lee, S. Faruqi, J. Kastelik, R. Teoh (Cottingham, United Kingdom)
- P466 Health-related quality of life and pulmonary function in patients after segmentectomy and lobectomy for tuberculosis  
M. Chushkin, O. Ots, B. Maliev, D. Zhutikov, S. Smerdin (Moscow, Russian Federation)

ROOM E104-106

SESSION 74

10:45 - 12:45

**Poster Discussion: Biomarkers of allergic inflammation****Chairs: J. Lotvall (Gothenburg, Sweden), S. Bonini (Roma, Italy)**

- P467 Atopy is a risk factor for COPD symptoms: Results from the EUROSCOP study  
F. Fattahi, N. H. T. ten Hacken, C. G. Löfdahl, M. N. Hylkema, W. Timens, D. S. Postma, J. M. Vonk (Groningen, The Netherlands; Lund, Sweden)
- P468 Granzyme B expression in lung of fatal asthmatics  
Y. Nussbaumer-Ochsner, L. Silva, A. van Schadewijk, M. Dolhnikoff, T. Mauad, K. Rabe, P. Hiemstra (Leiden, The Netherlands; São Paulo, Brazil)
- P469 Differences in responsiveness of blood neutrophils for fMLF identify two distinct groups of COPD patients  
V. Kamp, A. Lo Tam Loi, N. ten Hacken, S. Hoornhorst, J. W. Lammers, L. Koenderman (Utrecht, Groningen, The Netherlands)
- P470 A decreased integrin Mac-1 (CD11b/CD18) induced respiratory burst in neutrophils of COPD patients  
A. Lo Tam Loi, C. van Aalst, D. Kanters, L. Ulfman, J. W. Lammers, L. Koenderman (Utrecht, The Netherlands)
- P471 IL-18 in infectious exacerbations of COPD  
N. Rovina, E. Dima, G. Papadaki, T. Anagnostakos, C. Roussos, M. Alchanatis, N. Koulouris (Athens, Greece)
- P472 Serum and nasal lavage fluid Clara cell protein in children with allergic rhinitis  
T. E. Draz, T. B. Kamel, M. I. El-Mogy, E. H. Moustafa (Cairo, Egypt)
- P473 Elevated CEA levels in sera in patients with allergic bronchopulmonary aspergillosis (ABPA)  
H. Matsuzaki, W. Tanaka, Y. Kojima, M. Kawakami, M. Suzuki, Y. Sakamoto, T. Horiuchi (Tokyo, Japan)
- P474 Clinical implication of interleukin-33 in acute eosinophilic pneumonia compared with chronic eosinophilic pneumonia  
N. Mato, H. Yamasawa, M. Nakayama, M. Bando, Y. Sugiyama (Shimotsuke, Japan)
- P475 Possible role of IL-33 in the pathophysiology of asthma: A cross-sectional study  
H. Inoue, I. Ito, A. Niimi, H. Matsumoto, T. Oguma, H. Nakaji, T. Tajiri, T. Iwata, T. Nagasaki, M. Mishima (Kyoto, Japan)
- P476 Is analysis of exhaled breath condensate equivalent to that of bronchoalveolar lavage fluid?  
K. Nakamura, M. Mikuniya, S. Takanashi, A. Hayashi, T. Morimoto, K. Taima, K. Okumura (Hirosaki, Japan)
- P477 Expression of galectins in asthma patients  
S. Sánchez-Cuellar, H. de La Fuente, A. Lamana, D. Cibrián, A. Cruz-Adalia, R. M. Girón, F. Sánchez-Madrid, J. Ancochea (Madrid, Spain)
- P478 Analysis of IgE and C-reactive protein as possible predictors of exacerbation patients with asthma  
B. Prnjavorac, A. Caušević, S. Semiz, T. Dujic, M. Malenica, E. Mujaric, T. Bego (Tešanj, Sarajevo, Zenica, Bosnia And Herzegovina)
- P479 Structure-function relationship between extracellular matrix in airway smooth muscle and dynamics of lung function in asthma  
C. Y. Yick, D. S. Ferreira, R. Annoni, P. W. Kunst, E. H. Bel, R. Lutter, T. Mauad, P. J. Sterk (Amsterdam, The Netherlands; São Paulo, Brazil)

## SUNDAY SEPTEMBER 25

- P480 Peanut sensitisation is independently associated with increased airways inflammation in allergic asthma  
A. Malinovschi, C. Janson, P. Kalm-Stephens, K. Nisser, L. Nordvall, K. Alving (Uppsala, Sweden)
- P481 ADRB2, ADAM33 and AAT gene polymorphisms and IgE-mediated asthma in Russian patients  
E. Dmitrieva-Zdorova, M. Gabaeva, E. Latysheva, O. Voronko (Moscow, Russian Federation)
- P482 Gene polymorphism of epidermal growth factor receptor (EGFR) and airway hyperresponsiveness (AHR) in young allergic subjects without respiratory symptoms  
T. Yoshikawa, H. Kanazawa (Osaka, Japan)

## ROOM E102

## SESSION 75

10:45 - 12:45

## Poster Discussion: The new clinical spectrum of lung diseases: from bronchi to pleura

Chairs: C. Tantucci (Brescia, Italy), N. Tzanakis (Heraklion, Greece)

- P483 Different treatment courses with inhaled corticosteroids for eosinophilic bronchitis  
D. Xu, K. Lai, J. Xie, W. Luo, N. Zhong (Guangzhou, China)
- P484 Impact on objective cough severity by continuous positive airway pressure (CPAP) in subjects with chronic cough and obstructive sleep apnoea – A randomized controlled trial  
K. Chan, G. Cossa, L. Laks, S. Birring, A. Ing (Campbelltown, Sydney, Australia; London, United Kingdom)
- P485 Outcome of chronic cough referrals seen in general respiratory clinic  
K. Nandakumar, K. Vijayaratha (Burton-on-Trent, Wolverhampton, United Kingdom)
- P486 Accuracy of inhaler and nebulizer prescribing in hospitalized patients  
H. Lockman, R. Shrimanker, N. Withers, B. Patel (Exeter, United Kingdom)
- P487 Long term efficacy of war related bronchiolitis obliterans treatment  
H. Abtahi, S. Peiman, M. Moeinzad Tehrani (Tehran, Islamic Republic of Iran)
- P488 Lung function disturbances and BAL IL-6 in adult patients with sickle cell disease in Bahrain  
A. S. Bediwy, N. Noor, M. A. Hasanein (Tanta, Egypt)
- P489 Capsaicin sensitivity in patients with chronic refractory unexplained cough  
E. Ternesten Hasséus, E. Millqvist (Gothenburg, Sweden)
- P490 Contribution of clinical pulmonary infection score in the diagnosis of hospital acquired pneumonia  
B. Basarik, P. Ozdemir, M. S. Tasbakan, O. Kacmaz Basoglu, A. Gurgun, F. Bacakoglu (Istanbul, Turkey)
- P491 Implementing a community acquired pneumonia care bundle in the acute hospital setting  
E. Ramhamadany, S. Wilson, P. Eardley, J. Cheema, J. Johnson, K. Dohkia, M. Kay, R. Grant, M. Shamat, E. Ramhamadany, B. Mann, Z. Mirza (Isleworth, Middlesex, United Kingdom)
- P492 Evaluating the efficiency of complex treatment of influenza A (H<sub>1</sub>N<sub>1</sub>) in hospital conditions  
O. Titova, D. Larin, V. Volchkov (Saint-Petersburg, Russian Federation)
- P493 Prediction of complications development and lethal outcome in patients with community-acquired pneumonia  
V. P. Kolosov, E. Y. Kochegarova, S. V. Naryshkina (Blagoveschensk, Russian Federation)
- P494 Findings in peripheral biopsy muscle in severe pneumonia due to H1N1 influenza  
M. E. Dominguez Flores, M. Velazquez, R. J. Hernandez-Zenteno, F. Fernandez Valverde, S. Vargas Cañas, A. Ramirez-Venegas, J. L. Tellez Becerra, L. E. Payro, O. Baños, M. E. Vazquez, P. Ledezma (Mexico City, Mexico)
- P495 Bacterial profile, antibiotic sensitivity and resistance of lower respiratory tract infections in upper Egypt  
S. Mohamed, G. Agmy, Y. Gad, E. Farghally, H. Mohammedin, H. Rashed (Assiut, El-Minia, Sohag, Egypt)
- P496 Arterial hypoxemia and diminished immune response at admission predict poor outcome in patients with viral-bacterial pneumonia during flu H1N1 pandemic period  
R. Zulkarneev, S. Zagidullin, M. Sadritdinov, U. Farhutdinov, V. Leshkova, N. Vlasova, V. Mustafina (Ufa, Russian Federation)
- P497 Comparison of telomerase activity in malignant and benign pleural effusions  
R. Bahari (Tehran, Islamic Republic of Iran)
- P498 Evaluation of the utility of using pleural fluid cholesterol as a new criterion for the differential diagnosis between transudates and exudates  
K. Kosmidis, S. Patiakas (Kastoria, Greece)
- P499 A clinical study on broncholithiasis  
H. L. Lee, H. S. Nam, J. H. Cho, J. S. Ryu (Incheon, Republic of Korea)
- P500 Cough among hypertensive patients treated with angiotensin convertase inhibitors. Reduction of its frequency by substitution of angiotensin convertase inhibitor with angiotensin receptor blocker. Results of non-interventional, observational postmarketing study  
T. Lietz, M. Wronka, J. Kozielski (Warsaw, Zabrze, Poland)

## ROOM D201-202

## SESSION 76

10:45 - 12:45

## Poster Discussion: Innate and exogenous factors in childhood respiratory infection

Chairs: E. Haarman (Amsterdam, The Netherlands), M. Everard (Sheffield, United Kingdom)

- P501 Bacterial colonisation/infection and airway inflammation in preschool children with recurrent wheeze  
K. D. G. van de Kant, E. M. M. Klaassen, K. van Aerde, C. Bruggeman, F. Stelma, E. Stobberingh, G. T. Rijkers, J. W. M. Muris, Q. Jobsis, O. C. P. van Schayck, E. Dompeling (Maastricht, Utrecht, Nieuwegein, The Netherlands)

- P502 Small airway function in prematurely born infants following viral infection  
S. Drysdale, M. Alcazar, T. Wilson, M. Smith, M. Zuckerman, S. Broughton, G. F. Rafferty, S. Johnston, A. Greenough (London, United Kingdom)
- P503 IL-8<sub>77</sub> isoform in lungs of preterm infants and its processing by neutrophil serine proteases  
M. Chakraborty, E. McGreal, P. Davies, W. Powell, S. Akalovich, N. Voitenok, S. Kotecha (Cardiff, United Kingdom; Minsk, Republic of Belarus; Moscow, Russian Federation)
- P504 Expression and functional activity of IL-6, sIL-6R & sgp130 in the preterm infant lung  
M. Chakraborty, E. McGreal, P. Davies, S. Jones, S. Kotecha (Cardiff, United Kingdom)
- P505 Cytokine response in pediatric patients with pandemic H1N1 influenza virus infection and pneumonia: Comparison with pediatric pneumonia without H1N1 infection  
M. C. Hyun, D. W. Lee, Y. H. Kim (Daegu, Pusan, Republic of Korea)
- P506 Respiratory symptoms correlate with pulmonary inflammation at a time of presumed stability in children with non-ambulant neurodisability  
R. Trinick, A. M. Dalzell, P. S. McNamara (Liverpool, United Kingdom)
- P507 Subclinical vitamin D deficiency and acute respiratory tract infections in children: A systematic review  
A. M. A. Pillai, V. Palanivel (London, United Kingdom)
- P508 Risk factors for wheezing and allergy in preschool children (PSC) after admission for acute bronchiolitis  
A. Saianda, S. Lobo, S. Aguilar, R. Gouveia, A. Silva, T. Silva, F. Negreiro, T. Bandeira (Lisbon, Cascais, Portugal)
- P509 Effect of salbutamol on the growth, virulence and biofilm formation of *Pseudomonas aeruginosa*  
P. Kenia, P. Freestone, C. O'Callaghan (Leicester, United Kingdom)
- P510 RANTES gene promoter polymorphisms -28C/G and -403G/A in children hospitalized with community acquired pneumonia  
K. Haidopoulou, T. Doudouliaki, S. Pappa, A. Sakellaropoulou, P. Tsakiridis, M. Emporiadou, M. Xatzistylianou (Thessaloniki, Greece)
- P511 Diagnosis of primary ciliary dyskinesia in a Dutch cohort of 63 pediatric patients: An overview  
F. Nauta, G. Pals, H. Daniels, A. Nagelkerke, E. Haarman (Amsterdam, The Netherlands)
- P512 What is the gold standard in the diagnosis of primary ciliary dyskinesia syndrome?  
M. T. Romero Rubio, M. Armengot Carceller, C. Carda Batalla, A. Escribano Montaner, J. Milara Paya (Denia, Valencia, Spain)
- P513 Is spirometry less accurate than chest computed tomography in primary ciliary dyskinesia with pulmonary deterioration?  
M. Maglione, A. Bush, S. Montella, C. Mollica, A. Manna, A. Esposito, V. Mirra, F. Santamaria (Naples, Italy; London, United Kingdom)
- P514 Changing characteristics of childhood non-cystic fibrosis bronchiectasis  
E. Erdem, Y. Gokdemir, R. Ersu, F. Karakoc, B. Karadag (Istanbul, Turkey)
- P515 Viral epidemiology and severity of respiratory infections in infants in 2009-2010 winter: A prospective study in Basse-Normandie  
C. Laurent, A. Dugué, J. Brouard, J. Dina, A. Vabret (Caen, France)
- P516 Healthcare utilisation and related cost of care in the first two years related to RSV hospitalisation in infants born at 32 to 35 weeks gestation  
D. Shefali-Patel, M. Alcazar, E. Bowden, F. Wilson, J. Peacock, M. Campbell, A. Greenough (London, United Kingdom)
- P517 Rhinovirus-C infection in children presenting with acute respiratory infection to hospital in Brazil  
D. Fawcner-Corbett, K. Rose, A. Fonseca, J. Correia, M. Hopkins, S. K. Khoo, P. N. Le Souef, P. S. McNamara (Liverpool, United Kingdom; Recife, Brazil; Perth, Australia)
- P518 The prevalence of human rhinovirus C is low in children from the community without respiratory symptoms  
D. Cox, S. K. Khoo, J. Bizzantino, J. Goldblatt, I. Laing, P. Le Souef (Perth, Australia)

HALL 2-1

SESSION 78

12:50 - 14:40

**Thematic Poster Session: Asthma: a heterogeneous disease****Chairs: A. Bourdin (Montpellier, France), M. Romagnoli (Forli, Italy), C. Tummino (Marseille, France)**

- P519 Rasch analysis for evaluating abbreviated World Health Organization quality of life questionnaire (WHOQOL-Bref) in north Indian patients with bronchial asthma  
A. Aggarwal, R. Agarwal, D. Gupta (Chandigarh, India)
- P520 Lung sound monitoring in real time operation mode in diagnosis of exercise-induced asthma  
E. Kolganova, S. Glotov (Ryazan, Russian Federation)
- P521 Relationship between bronchial asthma and pelvic organ prolapse  
I. Ozdemir, A. E. Arican, M. Albayrak, I. Bulut, E. Gulec Balbay (Duzce, Nevsehir, Turkey)
- P522 Clinical characteristics of acute asthma presentation to the emergency department  
R. Ferrari, F. Giostra, M. Cavazza (Bologna, Italy)
- P523 Is it possible to decrease asthma severity by use of antidepressants?  
M. N. Akulova, S. I. Ovcharenko, E. N. Ishchenko (Moscow, Russian Federation)

## SUNDAY SEPTEMBER 25

- P524 Relationship between the quality of life and control achieving in asthmatics with cold airway hyperresponsiveness  
N. L. Perelman, J. M. Perelman, V. P. Kolosov (Blagoveschensk, Russian Federation)
- P525 Emotional and psychological peculiarities of compliance of patients with bronchial asthma  
L. V. Bogovin, V. P. Kolosov (Blagoveschensk, Russian Federation)
- P526 Glucocorticosteroid receptor (GCR) gene isoforms expression in bronchial asthma (BA) patients  
V. Belash, Z. Mironova, V. Trofimov, E. Iantchina, A. Ulitina, M. Dubina (Saint-Petersburg, Russian Federation)
- P527 Gastroesophageal reflux disease and asthma in pregnant women  
K. Bidad, N. Zendehtdel, H. Heidarnazhad, Z. Pourpak, M. Moin (Tehran, Islamic Republic of Iran)
- P528 The relation of body mass index to asthma severity, control level of disease and quality of life  
E. Aynaci, B. Anil, P. Yildiz (Istanbul, Turkey)
- P529 Validity and reliability of "asthma quality of life questionnaire" in a sample of Turkish adult asthmatic patients  
A. Ozgen Alpaydin, A. Yorgancioglu, O. Yilmaz, M. Bora, T. Goktalay, P. Celik, H. Yüksel (Manisa, Turkey)
- P530 The relationship between placenta histological features and asthma severity and prescribed therapy  
O. Lavrova, M. Petrova, M. Vakharlovskaya, E. Shapovalova (Saint-Petersburg, Russian Federation)
- P531 Impact of smoking in patients with and without history of asthma  
I. Palma, P. Fescina, R. Aguirre, M. Rolando, D. Antuni, R. Gene (Buenos Aires, Argentina)
- P532 The association between the asthma control test and the asthma quality of life questionnaire in adult asthmatics  
A. Ozgen Alpaydin, M. Bora, A. Yorgancioglu, A. Sakar Coskun, P. Celik (Manisa, Turkey)
- P533 Asthma, chlamydia trachomatis infection and women reproductive health  
V. Tsarev, N. Rudenya, S. Tsareva, Z. Antanovich (Minsk, Republic of Belarus)
- P534 Self-reported dental health and related factors in patients with asthma and chronic obstructive pulmonary disease  
K. Epozturk, A. Bingol, E. Atayik, O. Abadoglu (Sivas, Turkey)

HALL 2-2

SESSION 79

12:50 - 14:40

## Thematic Poster Session: COPD management

Chairs: M. Kneussl (Vienna, Austria), M. Bogdan (Bucharest, Romania), R. Bals (Homburg, Germany),  
M. Breyer (Vienna, Austria)

- P535 Inhibiting effects of tiotropium bromide on neocollagenesis during 6 month treatment  
M. Ostrovskyy, O. Varunkiv, M. Kulynych-Miskiv, I. Savelikhina (Ivano-Frankivsk, Ukraine)
- P536 Effect of erdosteine on airflow obstruction and symptom recovery in severe COPD exacerbations  
M. Moretti, M. Ballabio (Carrara, Milan, Italy)
- P537 Analysis of therapy of community-acquired pneumonia (CAP) at the COPD patients  
H. Demchuk, Y. Mostovoy (Vinnytsia, Ukraine)
- P538 Perioperative pulmonary complications and management of patients with COPD and esophageal malignancy  
Y. Yamakova, R. Petkov, G. Yankov, E. Astrukov, D. Petrov (Sofia, Bulgaria)
- P539 Index of myocardial injury CIIS and mortality of patients with chronic obstructive pulmonary disease  
N. Karoli, A. Rebrov (Saratov, Russian Federation)
- P540 Polypharmacy in patients with acute exacerbation of COPD  
J. Díez-Manglano, J. Barquero-Romero, P. Almagro-Mena, J. B. Soriano, J. Recio-Iglesias, F. J. Cabrera-Aguilar, ECCO Study Investigators (Zaragoza, Badajoz, Tarrasa, Barcelona, Madrid, Bunyola, Mallorca, Spain)
- P541 Comparison of two models of factors associated to hospital admission for COPD  
B. Alcázar Navarrete, A. Herrejón Silvestre, C. García Polo, L. A. Ruiz, P. García Sidro, G. Tirado Conde, J. A. Ros Lucas, C. Martínez Rivera, J. Costán, S. Mayoralas, M. Miravittles, InEPOC Group (Jaen, Valencia, Cadiz, Baracaldo, Castellon de la Plana, Manresa, Murcia, Barcelona, Zaragoza, Madrid, Spain)
- P542 More than two years of a monographic consultation on control of chronic home oxygen therapy  
T. Bilbao Goyoaga, N. Quilez, L. Comeche, D. Alvaro, J. M. Díez, R. Perez (Mostoles, Spain)
- P543 How we can modify the steroid insensitivity in patients with chronic obstructive pulmonary disease? The new pharmacological approach to old problem  
A. Sadigov, J. Mammadov, G. Alieva (Baku, Azerbaijan)
- P544 The influence of high doses of N-acetylcysteine alone or in combination with inhaled corticosteroids on quality of life in patients with COPD  
V. Kapustina, S. Ovcharenko (Moscow, Russian Federation)
- P545 Gender differences of predictors of health status in patients with COPD  
M. Coliba, A. Corlateanu, V. Botnaru (Chisinau, Republic of Moldova)
- P546 The subclinical atherosclerosis and its association to clinical features of stable COPD  
O. Salman Sever, I. Conkbayir, M. Yuce Ege, S. Akcali, H. Firat, T. Kaplan, S. Ardic (Ankara, Turkey)
- P547 Prevalence of heart disease in patients hospitalized for an acute exacerbation of COPD: Impact on clinical outcome. A 6 month follow-up study  
S. Fernandez Serrano, D. Sanchez Berenguer, J. Oriol, L. San Vicente, N. Galofre, G. Beltran, M. Altimira, L. Ortega (Badalona, Spain)

- P548 The relation between the inflammatory mediators, quality of life, and classification of the Gold guidelines of COPD patients  
E. Ibrahim, M. Zidan (Alexandria, Egypt)
- P549 COPD circle of care: Patient centred education and counselling tool for COPD self-management  
C. Chan (Toronto, Canada)
- P550 Influence of tiotropium bromide (TB) on the severity of clinical, functional symptoms and health-related quality of life (HRQL) in COPD patients (pts)  
L. Konopkina, T. Pertseva, V. Berezovskyi, B. Basina (Dnipropetrovsk, Ukraine)
- P551 The comparative characteristic of respiratory muscles function in patients with bronchial obstruction  
T. Pertseva, O. Myronenko (Dnipropetrovsk, Ukraine)
- P552 Comparative characteristics of protein metabolism disorders in patients with occupational and non-occupational COPD  
S. Panina, N. Sanina, N. Gondulenko, T. Igumnova (Dnipropetrovsk, Ukraine)
- P553 Evaluation of incontinence and quality of life in patients with chronic obstructive pulmonary disease (COPD) and bronchiectasis  
C. Brockwell, A. Clark, A. Baker, B. Hicken, G. Pardo, H. Little, A. Wilson (Norwich, United Kingdom)
- P554 Initial clinical phenotype of COPD: Correlation with the natural history of the disease  
L. Fasano, A. M. G. Pacilli, P. Carbonara, V. Di Scioscio, I. Valentini, G. Mistè, A. Montanari, M. Fabbri, M. Zompatori, S. Nava (Bologna, Italy)

## HALL 2-3

## SESSION 80

12:50 - 14:40

**Thematic Poster Session: COPD exacerbation****Chairs: G. Funk (Vienna, Austria), F. Mihaltan (Bucharest, Romania), W. Pohl (Vienna, Austria)**

- P555 Relationships between elevated cardiac troponin levels in COPD exacerbations and subsequent cardiac investigation and management  
P. R. Vamadevan, A. W. Hitchings, D. Ahnood, T. S. Grewal, E. H. Baker (London, United Kingdom)
- P556 Comparison of multidimensional assessment systems with regard to risk prediction for exacerbations of COPD  
T. Motegi, T. Ishii, K. Hattori, K. Kamio, K. Yamada, M. Kurahara, A. Gemma, K. Kida (Tokyo, Japan)
- P557 Relation of red blood cell distribution width with long-term survival in acute exacerbation of chronic obstructive pulmonary disease  
S. Altin, E. C. Seyhan, S. Sökücü, S. Tural, I. Tural, G. Günlüoğlu (Istanbul, Turkey)
- P558 Mathematical arterialisation for monitoring during exacerbation  
U. M. Weinreich, B. Rychwicka-Kielek, B. Andersen, R. Bibi, L. Birket-Smith, S. R. Kristensen, S. E. Rees (Aalborg, Denmark)
- P559 Do exacerbation outcomes in the POET-COPD™ trial differ between regions?  
M. P. M. H. Rutten-van Mölken, L. M. Fabbri, K. F. Rabe, H. Kögler, T. Glaab, H. Schmidt, K. M. Beeh, C. Vogelmeier (Rotterdam, The Netherlands; Modena, Italy; Grosshansdorf, Ingelheim, Wiesbaden, Marburg, Germany)
- P560 Effect of acute exacerbations on circulating thrombotic and fibrinolytic markers in COPD patients  
R. Polosa, M. Malerba, A. Radaeli, J. Morjaria, R. Gullo, G. Di Maria (Catania, Brescia, Italy; Southampton, United Kingdom)
- P561 Predictors of mortality after hospitalisation for acute exacerbation of chronic obstructive pulmonary disease  
Y. Wang, S. Humerfelt, K. Stavem, F. Dahl, T. Haugen (Lørenskog, Oslo, Norway)
- P562 Development of an automated questionnaire for the early detection of COPD exacerbations (AQCE)  
A. León, S. Astorga, M. Crespo, D. Sánchez, I. Failde, F. Crespo (Cadiz, Spain)
- P563 Procalcitonin use in acute exacerbations of COPD  
T. Medveczky, M. Jackson (Haywards Heath, United Kingdom)
- P564 Characteristics of patients with chronic obstructive pulmonary disease (COPD) discharged from the emergency department – Improving the care pathway for acute exacerbations of COPD  
S. Capocci, D. Turner, R. Pinate, M. Stern, L. Restrict (London, United Kingdom)
- P565 Impact of pneumonia on mortality and length of stay in patients hospitalized with acute COPD exacerbations  
S. L. Andreassen, E. D. Liaaen, N. Stenfors, A. H. Henriksen (Trondheim, Aalesund, Norway; Østersund, Umeå, Sweden)
- P566 Infectious factors influences on cytomorphological picture of bronchial biopsies at COPD exacerbation  
E. Bukreeva, G. Seitova, R. Pleshko (Tomsk, Russian Federation)
- P567 Cognitive decline in stable and exacerbating COPD vs. controls  
J. W. Dodd, R. A. Charlton, M. van den Broek, P. W. Jones (London, United Kingdom)
- P568 Post discharge mortality in North Indian patients with exacerbation of COPD  
H. Dar, U. Khan, P. Koul (Srinagar, India)
- P569 CURB-65 and mortality in pneumonic and non-pneumonic exacerbations of COPD  
J. Steer, G. J. Gibson, S. C. Bourke (North Shields, Newcastle-upon-Tyne, United Kingdom)

## SUNDAY SEPTEMBER 25

- P570 Anemia in COPD patients with an exacerbation  
M. Juarez Morales, J. De Miguel Díez, T. Gómez García, J. García Angulo, J. Chancafe Morgan, G. Sánchez Muñoz, L. Puente Maestu (Madrid, Spain)
- P571 Our experience of procalcitonin assay in identifying bacterial COPD exacerbations  
C. Gough, P. Pillai, R. Mulla (Luton, United Kingdom)
- P572 Profile of patients hospitalized with COPD acute exacerbation in respiratory department in Tunisia  
H. Kamoun, I. Zendah, I. Khouaja, S. Sakka, A. Khattab, L. Bayahi, H. Ghedira (Ariana, Tunisia)
- P573 Anemia in COPD patients in Spain: A systematic review  
J. Díez-Manglano, J. Barquero-Romero (Zaragoza, Almendralejo, Spain)
- P574 Interleukin-6, but not pentraxin 3, predicts adverse clinical outcomes on short-term prognosis of patients with incipient heart failure  
P. Boschetto, B. Bottazzi, A. Fucili, A. Potena, L. Ballerin, M. Stendardo, S. Piva, A. Verduri, B. Beghé, A. Mantovani, L. Fabbri, R. Ferrari, C. Ceconi (Ferrara, Milano, Modena, Italy)

## HALL 2-4

## SESSION 81

12:50 - 14:40

**Thematic Poster Session: Vascular and parenchymal imaging**

**Chairs:** R. Kubale (Pirmasens, Germany), A. Grgic (Homburg, Germany), S. Ley (Heidelberg, Germany), C. Schaefer-Prokop (Amsterdam, The Netherlands)

- P575 Late-breaking abstract: Point-of-care chest sonography: A prospective observational study on 88 patients. Preliminary data  
G. F. Sferrazza Papa, F. Reali, P. Carlucci, F. Di Marco, L. Colombo, P. Fracasso, S. Centanni (Milan, Italy)
- P576 Incidental abnormalities found on CT pulmonary angiograms performed for suspected acute pulmonary embolism  
M. Pagaria, S. Crooks, M. Hughes (Warwick, United Kingdom)
- P577 Management of incidental lung parenchymal lesions found on CT pulmonary angiograms  
S. Sallehuddin, S. Isse, P. Russell, S. Sundaram (Harlow, United Kingdom)
- P578 Diffuse pulmonary ossification (DPO) in the absence of interstitial fibrosis: CT findings and clinical correlates  
J. Gruden, P. Panse, A. Trahan (Phoenix, United States of America)
- P579 Ventilation – Perfusion scan outcome when the chest radiograph is abnormal  
Z. Raisi Estabragh, A. Lakhanpal, A. Ashraf, R. Hewson, H. Burhan (Liverpool, United Kingdom)
- P580 Ex vivo lung sonography: Morphological-ultrasound relationships  
A. Smargiassi, R. Inchingolo, G. Soldati, C. D. Inchingolo, S. Valente (Roma, Lucca, Andria, Italy)
- P581 Agreement between clinical and HRCT diagnoses in the evaluation of patients with respiratory diseases  
K. Nandakumar, K. Vijayaratha (Burton-on-Trent, Wolverhampton, United Kingdom)
- P582 Can D-dimer assay, together with clinical probability predict computed tomography pulmonary angiogram (CTPA) outcomes for pulmonary embolism (PE)?  
D. Lees, P. Griffiths, C. Paxton, Z. Wahbi (Wirral, United Kingdom)
- P583 Early signs of hemoptysis, the advance CT approach  
T. Milosavljevic, A. Ivkovic (Vranje, Nis, Republic of Serbia)
- P584 Abnormal chest radiographs preceding VQ scans: Does the type of abnormality matter?  
A. Lakhanpal, Z. Raisi Estabragh, A. Ashraf, J. Abbott, R. Hewson, H. Burhan (Liverpool, United Kingdom)
- P585 Limits of normality of quantitative thoracic CT analysis  
M. Cressoni, D. Chiumello, E. Carlesso, E. Gallazzi, A. Marino, M. Brioni, C. Chiurazzi, F. Y. Romano, D. Febres, L. Gattinoni (Milano, Italy)

## HALL 2-5

## SESSION 82

12:50 - 14:40

**Thematic Poster Session: From outside to inside: access to the pleura**

**Chairs:** M. Froudarakis (Alexandroupolis, Greece), S. Gasparini (Ancona, Italy), J. Tschopp (Crans-Montana, Switzerland), C. Marquette (Nice, France)

- P586 A randomised controlled study to compare the efficacy of closed pleural biopsy and medical thoracoscopic pleural biopsy in undiagnosed exudative pleural effusion  
R. Chetambath, N. Haridas, K. P. Suraj, J. Ponneduthamkuzhy Thomas (Calicut, India)
- P587 US guided transthoracic true cut biopsy of peripheral pulmonary and mediastinal lesions  
R. Petkov, Y. Yordanka, D. Petrov, E. Petkova (Sofia, Bulgaria)
- P588 Ultrasound guided transthoracic coaxial needle biopsy in chest lesions  
R. Slivka, M. Marcincinova, P. Kukol, P. Janik (Vysne Hagy, Slovakia)
- P589 Diagnostic value and complications of transthoracic fine needle aspiration in lung lesions  
C. Baskara, M. Kiyik, H. C. Tigin, M. T. Karadeli, T. Sonmez, A. Durmaz, H. Ozyurt, S. Cikrikcioglu (Istanbul, Turkey)
- P590 Costophrenic cannulation: A safe approach to ultrasound guided thoracentesis  
R. Inchingolo, A. Smargiassi, G. Soldati, S. Valente (Roma, Lucca, Italy)



- P591 Medical thoracoscopic lung biopsy obtained by stapler device: A new trick in old ground?  
G. Hardavella, G. Papavasileiou, D. Zacheilas, N. Koulouris, M. Alchanatis, N. Anastasiou (Athens, Greece)
- P592 Alternate drain of thoracic cavity by Seldinger technique in a tertiary healthcare setting  
G. Hardavella, G. Papavasileiou, D. Zacheilas, M. Alchanatis, N. Anastasiou (Athens, Greece)
- P593 Thoracoscopic findings of undeterminate eosinophilic pleural effusion  
K. Archontogeorgis, S. Anevlavis, P. Zarogoulidis, K. Nath Gupta, D. Bouros, M. Froudarakis (Alexandroupolis, Greece)
- P594 Evaluation of medical thoracoscopy in high risk surgical patients at Basildon Hospital  
N. Banerjee, A. Elsheikh, D. K. Mukherjee (Basildon, United Kingdom)
- P595 Is medical thoracoscopy indicated in the management of multiloculated and organized thoracic empyema?  
C. Ravaglia, C. Gurioli, S. Tomassetti, G. Casoni, M. Romagnoli, C. Gurioli, V. Poletti (Forlì, Italy)
- P596 Medical thoracoscopy – A district general hospital experience  
N. Acharya, R. Budd, M. Malik (Barnsley, United Kingdom)
- P597 Pigtail catheter drainage – When to use it  
J. Plutinsky, K. Bitter, Z. Taligova, I. Libakova, D. Petras, R. Sabova (Nitra, Slovakia)
- P598 Prognostic factors in patients with malignant pleural effusion undergoing thoracoscopy  
S. Anevlavis, K. N. Gupta, I. Sotiriou, G. Kouliatsis, A. Tzouvelekis, M. Koukourakis, D. Bouros, M. Froudarakis (Alexandroupolis, Greece)
- P599 Clinical utility of thoracoscopy under local anaesthesia in undiagnosed pleural effusion  
D. Bhattacharyya, M. S. Barthwal, C. D. S. Katoch, S. Bhattacharyya, S. Rohatgi (Pune, New Delhi, India)
- P600 Low dose vs high dose talc pleurodesis for malignant pleural effusion  
R. S. Jha (New Delhi, India)
- P601 Feasibility and complications of nelaton catheter insertion after pleural biopsy as a novel method for pleural effusion drainage  
E. Safavi, S. Seifirad, F. Shahram, S. Tavakkolizadeh, H. Abtahi (Tehran, Islamic Republic of Iran)
- P602 Pleuroscopy with an autoclavable semi rigid thoracoscope  
J. Tarrega, Y. Galea, P. Poch, M. Nieto, E. Barbeta (Granollers, Spain)
- P603 Retrospective evaluation of effectiveness and safety of local anaesthetic thoracoscopy compared with blind chest drain pleurodesis  
C. Malcolm, A. West, L. Ahmed (Kent, United Kingdom)
- P604 Safer intercostal drain (ICD) insertions  
P. T. Lee, T. Hartung (Kirkcaldy, United Kingdom)
- P605 A new electronic device for intrapleural pressure measurement – A presentation of use in a patient prepared for thoracoscopy  
R. Krenke, E. M. Grabczak, M. Michnikowski, J. Palko, M. Guc, R. Chazan (Warsaw, Poland)

HALL 2-6

SESSION 83

12:50 - 14:40

**Thematic Poster Session: To stent or not to stent: interventional bronchoscopy****Chairs: J. Flandes (Madrid, Spain), A. Bugalho (Lisbon, Portugal), F. Stanzel (Hemer, Germany), P. Chhajed (Basel, Switzerland)**

- P606 Interventional management versus standard treatment for inoperable malignant central airway obstruction  
G. Stratakos, V. Gerovasili, C. Dimitropoulos, D. Chiotis, G. Giozos, F. Filippidis, P. Emmanouil, S. Gennimata, A. Charpidou, M. Alchanatis, S. Zakynthinos (Athens, Greece)
- P607 Bronchoscopic assessment of airway invasion by esophageal cancer: A retrospective study  
R. Rolo, C. Pacheco, D. Alves, J. Cruz, L. Ferreira, J. Cunha (Braga, Portugal)
- P608 Postintubation tracheal stenosis – A 15 year experience  
F. Soares Pires, M. Vaz, A. Amorim, M. Sucena, A. Morais, G. Fernandes, A. Magalhães (Porto, Portugal)
- P609 Endoscopic management of idiopathic tracheal stenosis  
J. M. Perotin, T. Jeanfaivre, Y. Thibout, S. Jouneau, H. Lena, H. Dutau, P. Ramon, C. Lorut, M. Noppen, J. M. Vergnon, H. Vallerand, J. C. Merol, C. H. Marquette, F. Lebargy, G. Deslee (Reims, Angers, Saint-Etienne, Rennes, Marseille, Lille, Paris, Nice, France; Brussels, Belgium)
- P610 Airway measurements in tracheobronchial stenosis using endobronchial ultrasonography during stenting  
S. Nobuyama, N. Furuya, H. Handa, H. Nishine, N. Kurimoto, T. Miyazawa (Kawasaki, Japan)
- P611 Bronchoscopic application of mitomycin-C as adjuvant treatment of postintubation tracheal stenosis  
F. Viveiros, J. Gomes, A. Oliveira, S. Neves, J. Almeida, J. Moura e Sá (Vila Nova de Gaia, Portugal)
- P612 The management of post-intubation/tracheostomy stenosis with silicone stent  
J. H. Kim, J. E. Kim, K. W. Kang (Changwon, Republic of Korea)
- P613 Long term outcomes of patients with benign tracheal stenosis after multidisciplinary management  
G. Sratakos, D. Chiotis, C. Zisis, M. Stratiki, N. Gianniou, P. Emmanouil, N. Koufos, S. Gennimata, M. Alchanatis, S. Zakynthinos (Athens, Greece)

## SUNDAY SEPTEMBER 25

- P614 Evolution and therapeutical features in post-intubation tracheal stenosis in COPD patients  
E. Crisan, A. Croitoru, R. Ulmeanu, M. Alexe, I. Cordos, N. Galie, C. Paleru, C. Saon, G. Cadar, I. Ion (Bucharest, Romania)
- P615 RespiStent – A new concept for a viable stent for the treatment of endobronchial stenosis  
C. Cornelissen, S. Krüger, J. Spillner, S. Weinandy, S. Jockenhoevel (Aachen, Germany)
- P616 Incidence of bacterial colonization in patients with tracheobronchial stents  
R. Pascual Cascón, R. López Lisboa, N. Cubero de Frutos, P. Díaz Jimenez, J. Dorca Sargatall, A. Rosell Gratacós (Hospitalet de Llobregat, Spain)
- P617 Double esophagus and airways stents: Retrospective analysis in 33 patients  
M. Patout, S. Lachkar, M. Salaun, S. Leclaire, L. Thiberville (Rouen, France)
- P618 Tracheo-esophageal phistula: The role of bronchology  
V. Kolek, S. Losse, P. Jakubec, H. Bartosova (Olomouc, Czech Republic)
- P619 Long-term outcome of bronchial artery embolisation (BAE) for massive haemoptysis  
A. Adlakha, R. Gupta, A. Sebastian, P. Tait, J. Jackson, P. Ind (London, United Kingdom)
- P620 Bronchial artery embolisation in the management of haemoptysis in pulmonary tuberculosis  
D. Bhattacharyya, K. Pathak, M. S. Barthwal, C. D. S. Katoch, S. Rohatgi (Pune, India)
- P621 Bronchial artery embolization in 110 patients with massive hemoptysis in Punjab, India  
J. Whig, B. Mohan, R. Mahajan, H. Thind (Ludhiana, India)
- P622 Endobronchial photodynamic therapy with chlorine E6 in III-IV stage central lung cancer  
V. Molodtsova, N. Kazakov, A. Rusanov, I. Chistiakov, M. Urtenova, Y. Kulakova, A. Akopov (Saint-Petersburg, Russian Federation)
- P623 Active smoking, COPD and arterial hypertension are independent prognostic factors for complications following Nd:YAG laser resection of central lung cancer  
B. Zaric, B. Perin, S. Jovanovic, E. Budisin, N. Lalic, G. Stojanovic (Sremska Kamenica, Republic of Serbia)
- P624 A multimodality treatment approach to post transplant airway stenosis  
L. Yarmou, J. McDyer, A. Shah, D. Feller-Kopman (Baltimore, United States of America)
- P625 SHFJV (super imposed high frequency jet ventilation), ETCO<sub>2</sub> correlation to PaCO<sub>2</sub> in diagnostic and therapeutic rigid bronchoscopy  
G. Koller-Halmer, I. Schindler, H. Koller (Vienna, Austria)

HALL 2-7

SESSION 84

12:50 - 14:40

## Thematic Poster Session: Rare diffuse lung diseases

Chairs: J-F. Cordier (Lyon, France), P. Camus (Dijon, France), J. Jones (Viseu, Portugal), S. Tomassetti (Forlì, Italy)

- P626 Interstitial lung diseases in children: The French national cohort study  
N. Nathan, J. de Blic, R. Abou Taam, C. Delacourt, R. Epaud, A. Deschildre, P. Reix, R. Chiron, U. de Pontbriand, J. C. Dubus, L. Giovannini-Chami, F. Brémont, J. Brouard, C. Schweitzer, C. Marguet, M. L. Dalphin, V. Houdouin, F. Troussier, A. Sardet, E. Hullo, M. Fayon, I. Gibertini, K. Bessaci, M. Mahloul, D. Michon, J. F. Vibert, G. Thouvenin, B. Fauroux, H. Corvol, A. Clement, For the French RespiRare Group (Paris, Créteil, Lille, Lyon, Montpellier, Nantes, Marseille, Nice, Toulouse, Caen, Nancy, Rouen, Besançon, Angers, Lens, Grenoble, Bordeaux, Tours, Reims, France)
- P627 Diagnostic value of serum VEGF-D in consecutive patients with lymphangiomyomatosis  
V. Cottin, J. Lacroix, L. Denis, P. Jaffray, C. Khouatra, R. Guelminger, D. Valeyre, H. Nunes, J. Bienvenu, B. Crestani, C. Taillé, J. F. Cordier (Lyon, Paris, Bobigny, France)
- P628 Extracellular concentration and enzyme activity of proteasome in BAL of patients with alveolar proteinosis  
F. Bonella, T. Anlasik, J. C. Thomassen, M. Cai, S. Ohshimo, J. Guzman, U. Costabel (Essen, Düsseldorf, Bochum, Germany; Hiroshima, Japan)
- P629 Chronic eosinophilic pneumonia after radiation therapy for breast cancer  
M. Pons, A. Riglietti, I. Marsteller, V. Poletti, R. Lazor, A. Azzola (Lugano, Lausanne, Switzerland; Forlì, Italy)
- P630 Baseline characteristics of an Italian cohort of pulmonary alveolar proteinosis (PAP) patients  
I. Campo, Z. Kadija, F. Mariani, G. Rodi, E. Paracchini, C. Chalk, B. C. Trapnell, M. Luisetti (Pavia, Italy; Cincinnati, United States of America)
- P631 Lymphocytes populations in bloods and lungs in patients with auto-immune pulmonary alveolar proteinosis  
Y. Inoue, T. Arai, J. Otsuka, C. Sugimoto, M. Hirose, A. Natsumuro, Y. Iwaki, M. Nakagawa, S. Hayashi, M. Okada (Osaka, Japan)
- P632 Old and novel surfactant protein C (SP-C) mutations in children  
A. C. Grimmelt, M. Barker, F. Brasch, M. Gappa, M. Kappler, R. Kitz, C. Kroener, S. Lau, E. Lorenz, C. Pfannenstiel, M. Preosmans, J. Ripper, C. Werner, S. Zielen, M. Griese (Munich, Berlin, Bielefeld, Wesel, Frankfurt am Main, Frankfurt, Aachen, Leuven, Münster, Germany)
- P633 Serum VEGF-D and VEGFR-3 are biomarkers in lymphangiomyomatosis for its diagnosis and impaired pulmonary function  
H. Okabayashi, A. Masunaga, H. Ichiyasu, S. Tsumura, K. Kojima, K. Fujii, N. Saita, H. Kohrogi (Kumamoto, Japan)

- P634 Lymphangioliomyomatosis – Clinical characteristics and longitudinal follow-up of 36 cases  
M. Sobiecka, J. Kus, S. Wesolowski, E. Radzikowska, M. Korzeniewska-Kosela (Warsaw, Poland)
- P635 Relationships between respiratory impedance and prognosis in patients with end-stage pulmonary lymphangioliomyomatosis: A concept based on the Helmholtz resonator  
H. Hamakawa, H. Sakai, T. Bando, I. Matsumoto, T. Terashi, E. Miyamoto, R. Tachikawa, K. Tomii, Y. Takahashi, H. Date (Kobe, Kyoto, Japan)
- P636 The efficiency of Langerhans' cell histiocytosis treatment (3 years follow-up)  
O. Baranova, A. Speranskaja, I. Dvorakovskaya, E. Dembo-Smeathon, D. Dzadzua (Saint-Petersburg, Russian Federation)
- P637 Pulmonary Langerhans-cell histiocytosis – Analysis of 57 cases  
E. Radzikowska, E. Wiatr, A. Jarzemska, I. Bestry, R. Langfort, P. Rudzinski, K. Roszkowski-Sliz (Warsaw, Bydgoszcz, Poland)
- P638 Long term follow-up in patients with pulmonary alveolar proteinosis  
Y. Ilkovich, L. Novikova, O. Baranova, I. Dvorakovskaya, A. Bazhanov (St. Petersburg, Russian Federation)
- P639 Lymphocytic interstitial pneumonia – Two cases of unusual presentation  
J. Vale, E. Silva, V. Melo, J. Jones, R. Nunes, A. Simões Torres (Viseu, Portugal)
- P640 Abnormalities between down regulation of cyclooxygenase-2 and up-regulation of grow factors in patients with systemic sclerosis  
E. R. Parra, F. Lin, V. Capelozzi (São Paulo, Brazil)
- P641 Features of pulmonary involvement in patients with diffuse connective tissue diseases  
D. Petrova, Y. Shoikhet, S. Berestov, A. Dorokhov (Barnaul, Russian Federation)
- P642 Arterial stiffness in systemic scleroderma patients with restrictive lung disease  
N. Karoli, A. Rebrov (Saratov, Russian Federation)
- P643 Lung function testing (LFT), diffusing capacity (DC) in patients with rheumatologic disorders: Is spirometry exclusionary?  
G. Apti, H. Memis, A. Trailescu (Constanta, Bucharest, Romania)
- P644 Features of pulmonary involvement in patients with diffuse connective tissue diseases depending on a nosological form  
D. Petrova, Y. Shoikhet, A. Dorokhov, S. Berestov (Barnaul, Russian Federation)
- P645 Pulmonary manifestations of systemic sclerosis, a report from Iran  
A. Fakharian, N. Mansouri, M. Karimi, A. Zamani, D. Mansouri (Tehran, Islamic Republic of Iran)

## HALL 2-8

## SESSION 85

12:50 - 14:40

**Thematic Poster Session: What is new in the approach to pulmonary fibrosis?**

**Chairs:** L. Richeldi (Modena, Italy), J. J. G. Egan (Dublin, Ireland), K. Antoniou (Heraklion, Greece), D. Israel-Biet (Paris, France)

- P646 Preliminary results of the French national prospective cohort on IPF  
H. Nunes, Z. Carton, V. Cottin, D. Israel-Biet, M. Brauner, M. Kambouchner, B. Crestani, J. Cadranet, B. Wallaert, G. Prévot, K. Juvin, R. Borie, M. Wislez, J. Chabrol, A. Gaudouin, S. Feuillet, F. Gagnadoux, S. Marchand-Adam, B. Maitre, P. Bonniaud, P. Delaval, J. F. Cordier, D. Valeyre (Bobigny, Lyon, Paris, Lille, Toulouse, Besançon, Angers, Tours, Creteil, Dijon, Rennes, France)
- P647 Arterial stiffness and endothelial dysfunction in idiopathic pulmonary fibrosis (IPF)  
S. Avdeev, M. Makarova, A. Chuchalin (Moscow, Russian Federation)
- P648 Clinical course of idiopathic pulmonary fibrosis (IPF): Prediction and outcome  
C. Probst, E. Bargagli, P. Rottoli, F. Kollert, K. Höhne, G. Zissel, J. Müller-Quernheim, A. Prasse (Freiburg, Germany; Siena, Italy)
- P649 Risk factors of acute exacerbation of idiopathic pulmonary fibrosis-extended analysis of the pirfenidone trial in Japan  
H. Taniguchi, Y. Kondoh, M. Ebina, A. Azuma, T. Ogura, M. Suga, Y. Taguchi, H. Takahashi, K. Nakata, A. Sato, Y. Sugiyama, S. Kudoh, T. Nukiwa (Seto, Sendai, Tokyo, Yokohama, Kumamoto, Tenri, Sapporo, Kyoto, Tochigi, Japan)
- P650 Clinical profile of idiopathic pulmonary fibrosis with lung cancer  
C. Gurioli, S. Tomassetti, C. Ravaglia, M. Romagnoli, G. Casoni, N. Sverzellati, M. Zompatori, M. Chilosi, V. Poletti (Forlì, Parma, Bologna, Verona, Italy)
- P651 Effects of nitric oxide synthase up-regulation in early remodeling of usual interstitial pneumonia has impact on long term outcome of patients  
E. R. Parra, A. Aguiar Junior, S. Fernezlian, V. Capelozzi (São Paulo, Brazil)
- P652 Imbalance between circulating endothelial cells and endothelial progenitors in idiopathic pulmonary fibrosis  
D. Smadja, L. Mauge, H. Nunes, C. d'Audigier, K. Juvin, R. Borie, Z. Carton, O. Sanchez, B. Crestani, D. Valeyre, P. Gaussem, D. Israel-Biet (Paris, Bobigny, France)
- P653 Leptin and adiponectin levels in idiopathic pulmonary fibrosis  
F. Malli, P. Georgoulas, V. Varvara, I. Tsilioni, K. Gourgoulas, Z. Daniil (Larissa, Greece)
- P654 HRCT score to control and evaluate the prognosis in idiopathic pulmonary fibrosis  
R. Peris, E. Fernandez-Fabrellas, I. Inchaurrega, M. L. Domingo, J. Palop, R. Blanquer (Valencia, Spain)

## SUNDAY SEPTEMBER 25

- P655 Daily hand-held spirometry for the monitoring of patients with idiopathic pulmonary fibrosis  
A. M. Russell, P. Lukey, U. Fraser, E. Renzoni, A. Wells, T. Maher (London, Stevenage, United Kingdom)
- P656 Slow *versus* rapid progressors in idiopathic pulmonary fibrosis  
F. Soares Pires, C. Damas, P. Mota, N. Melo, D. Costa, J. M. Jesus, C. Souto-Moura, A. Morais (Porto, Portugal)
- P657 Clinical picture analysis of idiopathic pulmonary fibrosis (IPF) and lung cancer (LC) concomitance in the population of patients hospitalized in Ist Clinic of Lung Diseases Institute for Tuberculosis and Lung Diseases in Warsaw, Poland in the years 1994-2009  
A. Buraczewska, W. Skorupa, J. Kus, A. Kempisty, I. Bartoszek (Warsaw, Poland)
- P658 Prognostic evaluation in idiopathic pulmonary fibrosis (IPF)  
O. Munteanu, V. Botnaru, D. Chesov (Chisinau, Republic of Moldova)
- P659 The prognostic significance of cardiopulmonary exercise in IPF  
C. Triantafillidou, P. Lyberopoulos, L. Kolilekas, K. Kagouridis, S. Gyftopoulos, C. Sotiropoulou, A. Kotanidou, A. Karakatsani, S. Papis (Athens, Greece)
- P660 Proposal for revised classification of disease severity of idiopathic pulmonary fibrosis in Japan  
H. Taniguchi, K. Kataoka, Y. Kondoh, S. Homma, M. Mishima, Y. Inoue, T. Ogura, M. Bando, K. Hagiwara, H. Takahashi, K. Chida, K. Kishi, Y. Sugiyama (Seto, Tokyo, Kyoto, Osaka, Yokohama, Tochigi, Saitama, Sapporo, Hamamatsu, Japan)
- P661 Therapeutic effect of combination of salvia and ligustrazine on bleomycin-induced pulmonary fibrosis  
X. Fan, W. Wang, Y. Chen (Luzhou, China)
- P662 Promising effect of PMX-DHP absorption therapy for acute exacerbation of IPF  
A. Azuma, S. Abe, T. Ogura, H. Mukae, H. Taniguchi, M. Bando, Y. Sugiyama (Tokyo, Yokohama, Kitakyushu, Seto, Shimotsuke, Japan)
- P663 Effect of bosentan on MMP-7 levels as add-on therapy in idiopathic pulmonary fibrosis. A prospective study  
K. Samara, E. Vassalou, I. Giannarakis, I. Lasithiotaki, N. Tzanakis, N. Sifakas, K. Antoniou (Heraklion, Greece)
- P664 Tolerance of pirfenidone in Indian patients with idiopathic pulmonary fibrosis – Usual interstitial pneumonitis: An initial experience  
P. Chaudhari, A. Kate, J. Leuppi, P. Chhajed (Mumbai, NaviMumbai, India)
- P665 Correlations of quantitative HRCT score in idiopathic pulmonary fibrosis (IPF)  
O. Munteanu, V. Botnaru, D. Calaras (Chisinau, Republic of Moldova)

## HALL 2-9

## SESSION 86

12:50 - 14:40

**Thematic Poster Session: Experimental models and research in diffuse parenchymal lung diseases**

**Chairs: C. Vancheri (Catania, Italy), J. Behr (Bochum, Germany), J. Grutters (Nieuwegein, The Netherlands), J. Muller-Quernheim (Freiburg, Germany)**

- P666 Late-breaking abstract: Serum and blood cell culture Th17 cytokines in pigeon fanciers' hypersensitivity pneumonitis (HP)  
K. Anderson, I. Donnelly, L. Jolly, S. Todryk, P. Pushparaj, M. Lum, G. Short, M. Adamson, S. Bourke, C. McSharry (Kilmarnock, Glasgow, Newcastle, United Kingdom)
- P667 Reduction of lung injury and fibrosis by human embryonic stem cells in a mouse model of silica-induced lung fibrosis  
P. Spitalieri, M. C. Quitadamo, A. Orlandi, L. Guerra, E. Giardina, V. Casavola, C. Saltini, G. Novelli, F. Sangiuolo (Rome, Messina, Bari, Roma, Italy)
- P668 Rapid reversal of radiation-induced murine pneumonitis by treatment with the anti-CTGF monoclonal antibody FG-3019  
K. Lipson, U. Wirkner, M. Sternlicht, T. Seeley, S. Bickelhaupt, P. Peschke, P. Huber (San Francisco, United States of America; Heidelberg, Germany)
- P669 Glycosphingolipids modulate TGF- $\beta$  fibrotic signaling in human lung fibroblasts  
M. Arias-Guillen, E. M. Carmona, T. J. Kottom, A. Limper (Oviedo, Spain; Rochester, Oviedo, United States of America)
- P670 The stimulator of soluble guanylate cyclase riociguat protects against bleomycin-induced pulmonary fibrosis in mice  
O. V. Evgenov, J. P. Stasch, M. Mino-Kenudson, E. J. Mark, E. S. Buys, L. Zou, M. Zhang, M. J. Raheer, Y. Li, Y. Feng, R. C. Jones, W. Chao (Boston, United States of America; Halle, Germany)
- P671 Experimental model resembling the histological pattern of usual interstitial pneumonia and reinforcing the epithelial injury as pathway  
M. Soares Pincelli, J. Barbas-Filho, W. Teodoro, V. Capelozzi, E. R. Parra (São Paulo, Brazil)
- P672 Can flaxseed oil reduce experimental lung fibrosis in rats ?  
A. Abidi, R. Srairi, N. Kourda, F. Tritar, S. Maalej, L. Douik, M. Fekih, S. Ben Khamsa (Tunis, Ariana, Tunisia)
- P673 Inhibition of PAI-1 in the cigarette smoke induced epithelial-mesenchymal transition  
J. S. Song, C. M. Kang, K. H. Park, H. K. Yoon, H. S. Moon, S. H. Park (Seoul, Republic of Korea)
- P674 Bleomycin-induced remodeling – Inflammation and fibrosis are developing in parallel during initiation  
K. Rydell-Törmänen, G. Westergren-Thorsson (Lund, Sweden)

- P675 Enhanced lung inflammatory response to intratracheal CpG-ODN in mice with bleomycin-induced lung fibrosis  
H. Yamasawa, M. Nakayama, M. Bando, Y. Sugiyama (Tochigi, Japan)
- P676 Anti-oxidative and anti-inflammatory effects of trigonella foenum graecum (fenugreek) seed extract in experimental pulmonary fibrosis  
L. Yacoubi, R. Serairi, L. Rabaoui, M. H. Hamdaoui, N. Kourda, F. Tritar, S. Maalej, L. Douik, S. Ben Khamsa (Tunis, Tunisia)
- P677 Effect of experimental pulmonary fibrosis induced by bleomycin on the lung fatty acid composition in Wistar rats  
A. Abidi, M. Feki, S. Ben Khamsa (Tunis, Tunisia)
- P678 Bleomycin and paraquat-mediated pulmonary fibrosis is IL-17 independent  
A. Todorovic Fabro, M. Peres Rangel, E. R. Parra Cuentas, W. Rosolia Teodoro, H. Popper, V. L. Capelozzi (São Paulo, Brazil; Graz, Austria)
- P679 The effect of Nigella sativa oil on inflammation, fibrosis and antioxidant enzymes in the bleomycin-induced lung fibrosis model in rats  
S. Kaya, M. Cakir, S. Bircan, M. Ciris, D. Kumbul Doguc, M. Naziroglu, O. Celik, E. Sozbir, B. Harun Dagdeviren (Isparta, Turkey)
- P680 Modulation of fibroblast phenotype in idiopathic pulmonary fibrosis: Role of Nrf2  
E. Artaud-Macari, D. Goven, S. Brayer, J. Marchal-Sommé, B. Crestani, A. Boutten, M. Bonay (Paris, France)
- P681 Serum SP-A and SP-D: Different cutoff values for German and Japanese patients to diagnose idiopathic interstitial pneumonia  
Y. Horimasu, N. Hattori, N. Ishikawa, S. Tanaka, K. Yoshioka, S. Ohshimo, F. Bonella, J. Guzman, U. Costabel, N. Kohno (Hiroshima, Japan; Essen, Bochum, Germany)
- P682 LSC 2011 Abstract: Role of mast cells and chymase in idiopathic pulmonary fibrosis  
D. Kosanovic, B. K. Dahal, J. Messinger, Y. Fischer, K. Hoffmann, J. Antel, B. Husen, N. Hanke, S. Mayet, H. A. Ghofrani, N. Weissmann, F. Grimminger, W. Seeger, R. T. Schermuly (Giessen, Hannover, Bad Nauheim, Germany)
- P683 LSC 2011 Abstract: Histological markers of epithelial-mesenchymal transition in idiopathic pulmonary fibrosis provide evidence of an alternative repair process  
N. Lomas, N. Forsyth, M. Spiteri (Stoke-on-Trent, United Kingdom)

HALL 2-10

SESSION 87

12:50 - 14:40

### Thematic Poster Session: Quality of life and respiratory symptom management in primary care

**Chairs: D. Price (Cawston, United Kingdom), D. Ryan (Loughborough, United Kingdom), A. Langhammer (Levanger, Norway), S. Walker (London, United Kingdom)**

- P684 The relationship between socioeconomic status, quality of life and healthcare access in COPD: A systematic review  
S. Georgopoulou, A. J. Wright, J. Weinman, H. Booth, H. Thornton, P. White (London, United Kingdom)
- P685 The measurement of the impact of breathlessness in advanced COPD  
P. White, C. Shipman, S. Booth, C. Bausewein, M. Farquhar, I. Higginson, H. Booth (London, Cambridge, United Kingdom)
- P686 Validity of the pediatric electronic quality of life instrument for childhood asthma in the Netherlands  
L. van den Bemt, S. van Bragt, B. Thoonen, P. Merkus, T. Schermer (Nijmegen, The Netherlands)
- P687 Intractable breathlessness in COPD – A suitable case for palliation?  
P. White, S. Booth, S. Georgopoulou, W. Y. James, S. Murray, J. Moxham, H. Pinnock, P. Seed, C. Shipman, I. Higginson, H. Thornton, H. Booth (London, Cambridge, Edinburgh, United Kingdom)
- P688 Relationship of respiratory symptoms and climatic seasonality at an out-patient primary health unit in Brazil  
J. L. R. Silva Júnior, T. F. Padilha, J. E. Rezende, E. C. A. Rabelo, A. C. G. Ferreira, M. F. Rabahi (Goiânia, Brazil)
- P689 A study of the words used by patients and physicians to express asthma symptoms and daily activities limitations in primary care – The “Asthma Language” study  
M. Gaga, E. Zervas, K. Kostikas, S. Loukides, P. Bakakos, E. Panitti, N. Nikas (Athens, Greece)
- P690 Facilitation of optimal asthma management to radically influence health policy in primary care in Ireland  
J. Holohan, L. Coyne, F. Guiney, P. Manning, B. Elnazir, E. Shanahan, T. O'Connor, M. Ni Chroinin, N. Williams, R. Forsythe, P. Logan (Dublin, Ireland)
- P691 Does oxygen prescription on discharge lead to a decrease in re-admission rates in chronic obstructive pulmonary disease (COPD)?  
R. Rashid, C. Steeley, B. Chakraborty, Y. Khan, S. Bikmalla, R. Mukherjee (Birmingham, United Kingdom)
- P692 Possible cut-off values for stable or instable COPD as measured by the clinical COPD questionnaire (CCQ)  
M. Prinsen, E. Van Heijst, S. Schokker, C. de Jong, R. Riemersma, J. Kocks, T. van der Molen (Groningen, The Netherlands)
- P693 Experiences of establishing a new community based oxygen service  
D. Williams, N. Stevenson, J. Corless (Wirral, Merseyside, United Kingdom)
- P694 Body mass index and quality of life in patients with asthma  
G. Sergeeva, A. Emelyanov (Saint-Petersburg, Russian Federation)

## SUNDAY SEPTEMBER 25

- P695 Relation between quality of life and morbidity and mortality in COPD patients: 7-year follow-up study  
Y. Havlucu, A. Yorgancioglu, A. Sakar Coskun, G. Dinc Horasan, T. Goktalay, P. Celik (Manisa, Turkey)
- P696 The impact of 'specialized COPD outpatient clinic' in patient outcomes – A prospective cohort study in a Hong Kong government hospital  
H. N. Tse, K. Y. Wong, K. S. Yee, K. Y. Wai (Hong Kong, Hong Kong)
- P697 The percentage of influenza vaccination in urban and suburban high risk population in western Greece during the year 2010  
D. Sereti, T. Theodosiou, K. Sereti, M. Petta, M. Petta (Varda, Patras, Greece)
- P698 Influenza vaccination programme – Are the UK government incentives working?  
M. Paracha, R. Ahmed, M. Salahuddin (Newcastle-upon-Tyne, Leeds, Birkenhead, United Kingdom)
- P699 Asthma control and quality of life: 6-month follow-up of PRISMA study (PRospectIve Study on asthMA control)  
L. Allegra, G. Cremonesi, G. Girbino, E. Ingrassia, S. Marsico, G. Nicolini, C. Terzano (Milan, Parma, Messina, Naples, Rome, Italy)
- P700 Impact of therapy reviews in real-world asthma  
D. Price, J. Haughney, D. Ryan, I. Small, K. Gruffydd-Jones, A. Chisholm, S. Musgrave, N. Munir, F. Lavorini, A. Papi (Aberdeen, Norwich, Loughborough, Edinburgh, Peterhead, Box, Bath, United Kingdom; Florence, Ferrara, Italy)
- P701 Evaluation of COPD treatment success by office-based pneumologists in Germany using the example of tiotropium  
T. Glaab, A. Kroker, H. Mitfessel, H. Schmidt, H. Rau-Berger (Ingelheim, Koblenz, Krefeld, Germany)

HALL 2-11

SESSION 88

12:50 - 14:40

## Thematic Poster Session: New mechanisms in airway disease

Chairs: S. Matalon (Birmingham, United States of America), J. Chorostowska-Wynimko (Warsow, Poland)

- P702 microRNA regulation of the alpha-1 antitrypsin gene  
T. Hassan, I. Oglesby, S. O'Neill, C. Greene, G. McElvaney (Dublin, Ireland)
- P703 Inflammatory mediators in COPD patients with and without alpha-1-antitrypsin deficiency  
T. Greulich, J. Klein, C. Herr, A. Holland, S. Mronga, C. Vogelmeier, R. Koczulla, R. Bals (Marburg, Homburg, Germany)
- P704 Polymorphism of collagen I gene and glutathione-S-transferases T1 and M1 in chronic obstructive pulmonary disease associated with cardiovascular disease  
T. Tilik, V. Nevzorova, S. Vakhrusheva, E. Gilifanov, M. Issaeva, E. Openchuk, O. Atamas (Vladivostok, Russian Federation)
- P705 Sputum biomarkers in stable COPD  
I. Barta, B. Antus (Budapest, Hungary)
- P706 Polymorphism of glutathione-S-transferases T1 and M1 in chronic obstructive pulmonary disease  
S. Vakhrusheva, V. Nevzorova, T. Tilik, E. Gilifanov, M. Issaeva, E. Samoilenko (Vladivostok, Russian Federation)
- P707 Gene regulation of apoptosis and telomere length in COPD and lung cancer  
D. Bazyka, I. Ilyenko, L. Shvajko, K. Bazyka, O. Belyaev (Kiev, Ukraine)
- P708 Peripheral insulin resistance accounts for impaired glucose tolerance and is associated with systemic inflammation in COPD  
J. Archer, E. Baker (London, United Kingdom)
- P709 MKK3 is expressed in cells from patients with allergic asthma  
T. Holland, Y. Riffo-Vasquez, D. Spina, B. O'Connor, F. Woisin, M. Barber, K. Bacon, C. Rohlf, C. Page (London, Slough, Oxon, United Kingdom; Wuppertal, Germany; San Diego, United States of America)
- P710 Airway inflammation and airway pathophysiology in older asthmatics  
C. Porsbjerg, P. Gibson, J. Pretto, C. Salome, N. Brown, G. King (Newcastle, Glebe, Australia)
- P711 Investigation for candidate genes of glucocorticoid resistance by genome-wide gene expression profiling in animal model of asthma  
Z. I. Komlosi, I. Ungvári, E. Hadadi, V. Virág, K. Éder, G. Tölgyesi, A. Falus, G. Losonczy (Budapest, Hungary)
- P712 Protective effect of transcription factor PAX-5 (BSAP) on asthma severity  
L. Sorokina, V. Mineev, M. Nyoma, V. Ivanov, V. Trofimov (Saint-Petersburg, Russian Federation)
- P713 GATA-3 or T-bet: Who is the crucial marker of allergic bronchial asthma  
L. Sorokina, V. Mineev, M. Nyoma, V. Ivanov, V. Trofimov (Saint-Petersburg, Russian Federation)
- P714 Expression of CD38 and its participation in formation of endothelial dysfunction in patients with bronchial asthma  
A. Kraposhina, L. Kaptyuk, I. Demko, N. Ryazanova, O. Ischenko, E. Sobko, A. Salmina (Krasnoyarsk, Russian Federation)
- P715 The role of genetic polymorphism of NO-synthase in the implementation of the "atopic march"  
K. Rukin (Tomsk, Russian Federation)
- P716 The influence of cigarette smoke on the polymorphism of matrix metalloprotease (MMP2) in asthmatic patients  
M. Hadji, N. Mehiri, H. Hadded, K. Hamzaoui, A. Mesadi, J. Cherif, H. Zakhama, I. Saada, M. Ben Raies, F. Jaouadi, B. Louzir, J. Daghfous, M. Beji (Tunis, Tunisia)

- P717 Genetic typing of bronchial asthma afflicted people according to polymorphous genes for the purpose of disease progress risk factors detection  
N. Dudareva (Minsk, Republic of Belarus)
- P718 The role of the epithelial barrier in allergic airway inflammation  
M. Guschin, T. Barkhina, S. Polner, V. Golovanova (Moscow, Russian Federation)
- P719 Concomitant exposure to nicotine and endotoxin in vitro induces murine airway hyperreactivity possibly via nicotine-induced upregulation of toll-like receptors  
Y. Xu, Y. Zhang, L. O. Cardell (Huddinge, Stockholm, Sweden)
- P720 Increased cough responsiveness in guinea pigs with respiratory syncytial virus infection and its neurogenic mechanism  
X. Ye, C. Liu, N. Zhong, J. Zhao, R. Chen (Nanjing, Guangzhou, China)
- P721 Immunomodulation capacity of alpha-1 antitrypsin in regulation of CD14 molecules expression and secretion in human monocytes in vitro  
D. Serapinas, R. Sakalauskas (Kaunas, Lithuania)

HALL 2-12

SESSION 89

12:50 - 14:40

**Thematic Poster Session: COPD: human studies**

**Chairs: M. Saetta (Padova, Italy), N. Ten Hacken (Groningen, The Netherlands), T. Lapperre (Leiden, The Netherlands), A. Wood (Birmingham, United Kingdom)**

- P722 Various phenotypes of COPD are closely related to regulatory T cells  
E. Kremer, N. Kirillova, I. Deev, G. Chernogoruk, L. Ogorodova (Tomsk, Russian Federation)
- P723 IL-33 has a nuclear distribution and is not increased in peripheral lung of COPD patients  
G. Caramori, P. Casolari, A. Padovani, E. Garofano, M. Contoli, K. F. Chung, I. M. Adcock, A. Papi (Ferrara, Italy; London, United Kingdom)
- P724 Decrease of soluble adhesion molecules levels and bacterial mixt-infection in patients with COPD  
E. Makarova, N. Lubavina, N. Menkov, G. Varvarina, E. Beljaeva, V. Novikov (Nizhny Novgorod, Russian Federation)
- P725 Value of serum and induced sputum surfactant protein-D in chronic obstructive pulmonary disease  
B. Akinci Ozyurek, S. Savas Bozbas, S. Sarinc Ulasli, N. Bayraktar, S. Akcay (Ankara, Turkey)
- P726 Proinflammatory cytokines in induced sputum and COPD phenotype  
J. Domagala-Kulawik, J. Stepień, G. Hoser, R. Chazan (Warsaw, Poland)
- P727 Relationship between %neutrophils in induced sputum and IL-6 and TNF- $\alpha$  in COPD  
E. Payá Peñalver, C. Soto Fernández, R. Andújar Espinosa, C. Alcalde Rumayor, J. Guardiola Martínez, J. O. López Ojeda, C. F. Álvarez Miranda, F. J. Ruiz López, M. Lorenzo Cruz (El Palmar, Spain)
- P728 Expression of the phosphorylated myristoylated alanine-rich C kinase substrate (MARCKS) in COPD bronchial glands  
G. Caramori, P. Casolari, E. Garofano, M. Contoli, G. Gnesini, A. Padovani, K. F. Chung, P. J. Barnes, I. M. Adcock, A. Papi (Ferrara, Italy; London, United Kingdom)
- P729 The effects of morphological remodeling of the bronchi on the neocollagenesis processes in patients with COPD stage 2 during exacerbation  
M. Ostrovskyy, O. Varunkiv, M. Kulynych-Miskiv, I. Savelikhina (Ivano-Frankivsk, Ukraine)
- P730 Differences in biomarkers of systemic inflammation in two phenotypes of COPD patients  
C. Soto Fernández, E. Payá Peñalver, R. Andújar Espinosa, C. Alcalde Rumayor, J. O. López Ojeda, C. F. Álvarez Miranda, J. Guardiola Martínez, F. J. Ruiz López, J. Latour Pérez, I. Parra Parra, M. Lorenzo Cruz (Murcia, Spain)
- P731 LSC 2011 Abstract: The relationship of CD4+/CD8+ ratios and toll like receptor-2 expression with COPD and smoking  
A. Ozgen Alpaydin, G. Sahin Ulutas, F. Taneli, C. Cetinkaya, Y. Guvenc, C. Ulman, G. Dinc, A. Sakar Coskun (Manisa, Turkey)
- P732 Peripheral neutrophil stiffness in severe COPD exacerbations  
E. Arismendi Núñez, T. Luque, Y. Torralba García, A. Agustí, D. Navajas, R. Rodríguez-Roisin (Barcelona, Spain)
- P733 Increase of extracellular IL-17A and anti-microbial peptides in the peripheral airways of smokers  
A. Linden, P. Glader, B. Dahlen, B. Billing, L. Palmberg, A. S. Lantz, K. Larsson (Gothenburg, Stockholm, Sweden)
- P734 Comparison of airway cellular and mediator profiles between tobacco smoke-induced COPD and biomass fuel exposure-induced COPD in an Indian population  
B. Brashier, N. Vanjare, J. Londhe, S. Madas, S. Juvekar, S. Salvi, P. Barnes (Pune, India; London, United Kingdom)
- P735 Vascular dysfunction and systemic inflammation in patients with COPD  
F. Villar-Álvarez, G. Peces-Barba, J. Gómez-Seco, M. J. Rodríguez-Nieto, M. B. Gallegos-Carrera, M. J. Rodríguez-Guzmán, A. Martín de San Pablo-Sánchez, I. Fernández-Ormaechea (Madrid, Spain)
- P736 Influence of AECOPD to ROS production in neutrophils  
M. Vaitkus, S. Lavinskiene, K. Bieksiene, J. Jeroch, R. Sakalauskas (Kaunas, Lithuania)
- P737 Acute smoke exposure decreases bronchial extracellular proteasome concentration  
S. J. Schliessmann, S. Cicko, J. Thomassen, T. Anlasik, T. Müller, M. Idzko, G. Zissel, S. U. Sixt (Freiburg, Düsseldorf, Germany)

## SUNDAY SEPTEMBER 25

- P738 Neutrophil phagocytic activity in AECOPD  
S. Lavinskiene, M. Vaitkus, K. Bielskiene, J. Jeroch, R. Sakalauskas (Kaunas, Lithuania)
- P739 LSC 2011 Abstract: Suppression of antitumor immunity as a potential link between inflammation and cancer in COPD  
S. Scrimini, J. Pons de Ves, A. Rios, A. Iglesias Coma, R. Cordoba, F. Polverino, J. Sauleda Roig (Palma de Mallorca, Spain; Cava dei Tirreni, Italy)
- P740 LSC 2011 Abstract: BAFF in the interaction between T regulatory and B cells in COPD  
F. Polverino, J. Pons, A. Iglesias, A. Rios, S. Scrimini, C. Crespi, J. Sauleda, A. Agusti, B. Cosio (Palma de Mallorca, Barcelona, Spain; Messina, Italy)
- P741 Is centrilobular emphysema the link to the Dutch hypothesis?  
A. Ballarin, E. Bazzan, R. Hernandez-Zenteno, G. Turato, S. Baraldo, E. Balestro, D. Zanovello, M. Saetta, M. Cosio (Padova, Italy; Ciudad de Mexico, Mexico; Montreal, Canada)

HALL 2-13

SESSION 90

12:50 - 14:40

**Thematic Poster Session: Airway smooth muscle cells and fibroblasts: cell biology**

**Chairs: P. Borger (Basel, Switzerland), M. Koenigshoff (Munich, Germany), H. Meurs (Groningen, The Netherlands)**

- P742 TGF $\beta$ 1-induced extracellular matrix production enhances airway smooth muscle cell proliferation  
T. A. Oenema, L. Smedinga, G. Mensink, A. J. Halayko, J. Zaagsma, H. Meurs, R. Gosens, B. G. J. Dekkers (Groningen, The Netherlands; Winnipeg, Canada)
- P743 Omalizumab inhibits IgE-induced extracellular matrix deposition by asthmatic airway smooth muscle cells  
M. Roth, M. Tamm (Basel, Switzerland)
- P744 Neo-vascularisation in asthma: Altered angiogenic potential of ASM cells from asthmatic patients  
L. Keglwich, M. Roth, M. Tamm, P. Borger (Basel, Switzerland)
- P745 Carrier-mediated transport of tiotropium in bronchial smooth muscle cells: The role of pH-dependent organic cation transporters  
G. Horvath, G. Losonczy, E. Mendes, N. Schmid, A. Schmid, G. Conner, N. Fregien, M. Salathe, A. Wanner (Miami, United States of America; Budapest, Hungary)
- P746 Role of endosomal and cytosolic pattern recognition receptors in dsRNA-induced cytokine expression in human airway smooth muscle cells  
J. Calvén, Y. Yudina, L. Bjermer, L. Uller (Lund, Sweden)
- P747 The YKL-40-increased bronchial smooth muscle cell proliferation and migration is PAR-2 dependant  
I. Bara, A. Ozier, P. O. Girodet, J. Cattiaux, R. Kolbeck, A. Coyle, J. M. Tunon de Lara, R. Marthan, P. Berger (Bordeaux, Pessac, France; Gaithersubrg, United States of America)
- P748 Airway smooth muscle cells from patients with COPD exhibit a higher degree of cellular proliferation and steroid insensitivity than that from healthy patients  
M. Perry, J. Baker, K. F. Chung (London, United Kingdom)
- P749 miR-221 and miR-222 target p21 and p27 in airway smooth muscle to elicit hyper proliferation in severe asthmatics  
M. Perry, J. Baker, K. F. Chung (London, United Kingdom)
- P750 Sphingosine-1-phosphate receptor expression and signalling in human airway smooth muscle cells  
E. Stafflinger, H. Foster, K. Mahn, C. Corrigan, T. Lee, G. Woszczek (London, United Kingdom)
- P751 Heme-oxygenase (HO)-1 inhibits TNF- $\alpha$  induced CXCL10 secretion by airway smooth muscle cells  
P. Seidel, K. Hostettler, M. Hughes, M. Tamm, M. Roth (Basel, Switzerland; Sydney, Australia)
- P752 Corticosteroid insensitivity and enhanced mitogen-activated protein kinase activity in airway smooth muscle cells of severe asthma  
P. J. Chang, C. Michaeloudes, P. Bhavsar, K. F. Chung (London, United Kingdom)
- P753 MAP kinases mediate FGF-induced expression and release of VEGF in human airway smooth muscle cells: The role of azithromycin  
A. Willems-Widyastuti, B. Vanaudenaerde, R. Vos, S. Verleden, S. De Vleeschauwer, A. Vaneylen, W. de Boer, H. S. Sharma, G. Verleden (Leuven, Belgium; Leiden, Amsterdam, The Netherlands)
- P754 Effects of formoterol on TGF- $\beta$ 1 induced factors of extracellular matrix composition  
C. Lambers, L. Stiebellehner, B. Burian, P. Binder, V. Petkov, L. H. Block (Vienna, Austria)
- P755 LSC 2011 Abstract: Potential anti-inflammatory role of the cAMP effectors Epac and PKA in COPD  
A. Oldenburger, S. Roscioni, E. Jansen, M. Menzen, A. Halayko, W. Timens, H. Meurs, H. Maarsingh, M. Schmidt (Groningen, The Netherlands; Winnipeg, Canada)
- P756 Caveolin-1 expression in airway smooth muscle cells is related to airway responsiveness magnitude in allergic asthma model  
F. Gutierrez-Aguilar, N. A. Bobadilla, M. G. Campos, R. Lascurain, E. Martínez-Cordero, M. D. Alvarez-Santos, P. Ramos-Ramírez, B. Bazan-Perkins (Mexico City, Mexico)
- P757 Relaxant effect of *crocus sativus* (saffron) on guinea pig tracheal chains and its possible mechanism(s)  
E. Assadpour, M. H. Boskabady, M. R. Aslani (Mashhad, Islamic Republic of Iran)



- P758 Cigarette smoke alters hyaluronic acid homeostasis in primary human lung fibroblasts  
E. Papakonstantinou, I. Klagas, N. Miglino, G. Karakiulakis, M. Tamm, M. Roth (Thessaloniki, Greece; Basel, Switzerland)
- P759 Roflumilast N-oxide, a PDE4 inhibitor, curbs bleomycin-induced lung fibroblast activation *in vitro*  
B. Arezzini, D. Vecchio, P. A. Martorana, H. Tenor, C. Gardi (Siena, Italy; Konstanz, Germany)
- P760 Fibroblast cell behaviour growing into a stiffened three dimensional collagen matrix  
V. Vicens, S. Estany, A. Colom, J. Alcaraz, D. Navajas, A. J. Sanabria, R. Llatjos, I. Escobar, P. V. Romero, F. Manresa, J. Dorca, M. Molina (L'Hospitalet de Llobregat, Barcelona, Spain)
- P761 Tiotropium reduced carbachol-induced expressions of IL-6 and IL-8 by primary human lung fibroblasts of asthma and non-asthma subjects  
L. Costa, M. Roth, P. Casarosa, M. Tamm, P. Borger (Basel, Switzerland; Biberach, Germany)

HALL 2-14

SESSION 91

12:50 - 14:40

**Thematic Poster Session: Lung cell biology**

**Chairs:** T. Tetley (London, United Kingdom), C. Taggart (Belfast, United Kingdom), I. Heijink (Groningen, The Netherlands), C. Ward (Newcastle-Upon-Tyne, United Kingdom)

- P762 Late-breaking abstract: Differential expression profiles of genes involved in oxidative stress and inflammation in blood and sputum from healthy subjects and COPD patients  
C. Moermans, D. Degroote, P. Dorfman, E. Capieaux, M. Henket, J. L. Corhay, R. Louis (Liège, Sart Tilman, Belgium)
- P763 Late-breaking abstract: Cyclooxygenase- and lipoxygenase-dependent generation of omega-3 electrophilic fatty acid-derivatives with anti-inflammatory properties  
C. Cipollina, S. Salvatore, B. A. Freeman, F. J. Schopfer (Palermo, Italy; Pittsburgh, United States of America)
- P764 Late-breaking abstract: Surfactant protein D (SP-D) as a biomarker for mortality: A study in elderly Danish twins  
H. Wulf Johansson, M. Thinggaard, Q. Tan, K. Christensen, U. Holmskov, G. Lykke Sørensen (Odense, Denmark)
- P765 Late-breaking abstract: Lung regional differences in tissue adaptation to chronic hypoxia (CH)  
A. Panariti, A. Ferri, D. Bishop, G. Miserocchi, I. Rivolta (Monza, Italy; Melbourne, Australia)
- P766 Engineered nanoparticles induce apoptosis of human bronchial epithelial cells  
H. Bayram, B. Gogebakan, R. Bayraktar, A. Arslan (Gaziantep, Turkey)
- P767 IL-17 enhances IL-8 production by attenuating both the ARE-mediated and the microRNA-mediated degradation of IL-8 mRNA  
S. Chowdhury, A. Dijkhuis, R. Lutter (Amsterdam, The Netherlands)
- P768 A quantitative method for the detection of spliced X-box binding protein-1 (XBP1) mRNA in primary bronchial epithelial cells (PBEC) as a measure of endoplasmic reticulum (ER) stress  
A. van Schadewijk, E. F. A. van 't Wout, J. Stolk, P. S. Hiemstra (Leiden, The Netherlands)
- P769 Pulmonary apoptosis in fetal Down syndrome  
M. Bruijn, J. von der Thüsen, C. van der Loos, R. de Krijger, R. van Loenhout, A. Bos, J. van Woensel (Amsterdam, Rotterdam, The Netherlands; London, United Kingdom)
- P770 Airway epithelial protocadherin-1 expression is regulated by house-dust mite and cigarette smoke exposure in mice  
M. Nawijn, H. Koning, U. Brouwer, L. den Boef, M. Hylkema, D. Postma, G. Koppelman, A. van Oosterhout (Groningen, The Netherlands)
- P771 Fluticasone furoate restores leptin/leptin receptor pathway in nasal epithelial cells  
A. Bruno, M. Ferraro, S. Gerbino, A. Bonura, P. Colombo, S. La Grutta, M. Gjomarkaj, E. Pace (Palermo, Italy)
- P772 S-CMC-Lys reduces oxidative stress of respiratory cells and increases GSH intracellular content  
C. Bazzini, R. Balsamo, L. Lanata, M. Bagnasco, F. Sassone, M. L. Garavaglia, G. Meyer (Milan, Italy)
- P773 Mitochondrial dysfunction in airway epithelium increases pro-inflammatory IL-8, impairs barrier function and reduces glucocorticoid responsiveness  
R. Hoffmann, S. Brandenburg, N. ten Hacken, A. van Oosterhout, I. Heijink (Groningen, The Netherlands)
- P774 Effect of phosphodiesterase IV inhibitors on eotaxin expression in bronchial epithelial cells – Comparison between immortalized and primary line  
M. Paplinska, R. Chazan, H. Grubek-Jaworska (Warsaw, Poland)
- P775 ciliaFA: A free research tool for accurate, automated, high-throughput measurement of ciliary beat frequency (CBF)  
C. Smith, J. Djakow, P. Djakow, A. Patel, R. Hirst, P. Andrew, C. O'Callaghan (Leicester, United Kingdom; Prague, Czech Republic)
- P776 Interactions between epithelial cells and neutrophils during pro-inflammatory conditions  
I. von Schéele, K. Larsson, L. Palmberg (Stockholm, Sweden)
- P777 Effect of cigarette smoke extract or TGF- $\beta$ 1 on hyaluronan production and hyaluronan modulating enzymes in primary murine lung fibroblasts  
K. Bracke, J. Vernooy, T. Demoor, G. Joos, E. Wouters, G. Brusselle, M. Dentener (Ghent, Belgium; Maastricht, The Netherlands)
- P778 Cigarette smoke down-regulates the expression of  $\beta$ -catenin in primary human lung fibroblasts  
N. Miglino, S. Petra, M. Roth, C. Sadowski-Cron, D. Lardinois, M. Tamm, P. Borger (Basel, Switzerland)

## SUNDAY SEPTEMBER 25

- P779 Anti-inflammatory effect of beclomethasone dipropionate and formoterol on TNF- $\alpha$ -induced human endothelial cell activation  
S. Cianchetti, C. Cardini, G. Nicolini, A. Celi, P. Paggiaro (Pisa, Parma, Italy)

HALL 2-15

SESSION 92

12:50 - 14:40

## Thematic Poster Session: The ageing pulmonary interstitium

**Chairs: O. Eickelberg (Munich, Germany), P. Bonniaud (Dijon, France), M. Keane (Dublin, Ireland), G. Cox (Hamilton, Canada)**

- P780 Ambrisentan attenuates lung and heart injury in a rat model of bronchopulmonary dysplasia  
G. Wagenaar, Y. de Visser, E. H. Laghmani, F. Walther (Leiden, The Netherlands)
- P781 Serum HSP47 is a novel blood marker for rapidly progressive interstitial pneumonia  
T. Kakugawa, S. I. Yokota, Y. Ishimatsu, T. Hayashi, S. Nakashima, S. Hara, N. Sakamoto, H. Kubota, M. Mine, Y. Matsuoka, H. Mukae, K. Nagata, S. Kohno (Nagasaki, Sapporo, Kyoto, Akita, Kitakyushu, Japan)
- P782 Protease-activated receptor-2 triggers epithelial to mesenchymal transition: Potential relevance in pulmonary fibrosis  
K. Borensztajn, J. von der Thüsen, M. Peppelenbosch, A. Spek (Amsterdam, Rotterdam, The Netherlands; London, United Kingdom)
- P783 Disruption of Nrf2 enhances susceptibility to pulmonary fibrosis induced by bleomycin in mice  
Y. J. Li, T. Shimizu, Y. Hirata, H. Inagaki, A. Azuma, H. Takizawa, S. Takahashi, M. Yamamoto, T. Kawada, S. Kudoh (Tokyo, Kawasaki, Ibaragi, Sendai, Kiyose, Japan)
- P784  $\alpha$ B-crystallin is involved in the process of pulmonary fibrosis  
P. S. Bellaye, G. Wettstein, C. Garrido, J. Gaultie, M. Kolb, P. Camus, P. Bonniaud (Dijon, France; Hamilton, Canada)
- P785 Systemic sclerosis patients' sera recognize collagen V in experimental scleroderma lung fibrosis  
N. Borsonello, A. P. Velosa, P. Martin, R. Marangoni, S. Carrasco, E. Parra, V. Capelozzi, N. Yoshinari, W. Teodoro (São Paulo, Brazil)
- P786 Work of inflation is the best correlate to lung fibrosis induced by bleomycin in mice  
J. E. Phillips, R. Peng, G. Tyagi, R. Garrido, L. Burns, P. Harris, J. S. Fine, C. S. Stevenson (Nutley, United States of America)
- P787 Levels of cytokines and chemokines in BAL fluid in patients with idiopathic interstitial pneumonitis and collagen vascular disease associated interstitial pneumonitis  
T. Shiobara, H. Hirata, Y. Fukushima, M. Tatewaki, F. Fukushima, K. Chibana, K. Sugiyama, M. Arima, K. Kurasawa, T. Fukuda (Mibu-machi, Shimotsuga-gun, Chiba, Japan)
- P788 Enhanced acute pulmonary inflammation and reduced fibrotic response in quartz-exposed p47phox-deficient mice  
C. Albrecht, D. van Berlo, A. Boots, A. Wessels, V. Wilhelm, A. Scherbar, K. Gerloff, F. Huaux, A. Bast, R. Schins (Duesseldorf, Germany; Maastricht, The Netherlands; Brussels, Belgium)
- P789 Muscarinic receptor stimulation differentially regulates extracellular matrix gene expression in lung fibroblasts  
B. Dekkers, R. Gosens, J. Zaagsma, H. Meurs (Groningen, The Netherlands)
- P790 Collagen V and decorin is involved in systemic sclerosis pulmonary fibrosis  
P. Martin, A. P. Velosa, A. Santos, S. Carrasco, A. Santos, E. Parra, C. Goldenstein-Schainberg, N. Yoshinari, V. Capelozzi, T. Walcy (São Paulo, Brazil)
- P791 The effect of erythropoietin (EPO) on cyclooxygenase-2 (COX-2) and cytochrome-c (CYT-c) in the bleomycin (BLM)-induced pulmonary fibrosis (PF) in rats  
D. Tsavlis, A. Tzoumaka, G. Kokaraki, K. Kouzi-Koliakos, I. Angomachalelis, A. Tektonidou, D. Koutsonikolas, E. Spandou (Thessaloniki, Greece)
- P792 Microparticles-associated tissue factor activity is increased in bronchoalveolar lavage of patients with pulmonary fibrosis and correlates with functional impairment  
F. Novelli, T. Neri, C. Noce, L. Tavanti, S. Cini, F. Martino, A. Celi, P. Paggiaro (Pisa, Italy)
- P793 Study of tetrahydrobiopterin in idiopathic pulmonary fibrosis and COPD  
P. Almudéver Folch, A. De Diego Damia, J. Cortijo Gimeno, M. León Fábregas, M. J. Fandós, X. Milara (Valencia, Spain)
- P794 Increase of nitrosative stress in patients with eosinophilic pneumonia  
K. Furukawa, H. Sugiura, K. Matsunaga, T. Ichikawa, A. Koarai, T. Hirano, M. Ichinose (Wakayama, Japan)
- P795 Molecular mechanism of lung aging in senescence-accelerated mouse (SAM)  
Y. Yuan, X. Hu, L. Luo, M. Yang, Z. Su, X. Zhang (Chengdu, China)
- P796 Ageing and smoking contribute to plasma surfactant proteins and protease imbalance with correlations to airway obstruction  
H. Ilumets, W. Mazur, T. Toljamo, N. Louhelainen, P. Nieminen, H. Kobayashi, N. Ishikawa, V. Kinnula (Helsinki, Rovaniemi, Oulu, Finland; Tokorozawa, Hiroshima, Japan)
- P797 Endothelial dysfunction in preterm infants with respiratory disorders  
O. Mazulov, Y. Kyslova, O. Yablon (Vinnitsa, Ukraine)
- P798 Neutral sphingomyelinase 2 (nSMase2) has a protective role in emphysema  
C. Poirier, N. Bogatcheva, C. Dimitropoulou, P. Biddinger, A. Verin (Augusta, United States of America)

- P799 Late intervention with a myeloperoxidase inhibitor prevents emphysema and small airway remodeling in the guinea pig  
A. Churg, C. Marshall, D. Sin, E. Cadogan, M. Soars, S. Bolton, J. Maltby, P. Mallinder, J. Wright (Vancouver, Canada; Charnwood, United Kingdom)

## HALL 2-16

## SESSION 93

12:50 - 14:40

**Thematic Poster Session: Anti-inflammatory strategies in acute lung injury**

**Chairs:** M. Takata (London, United Kingdom), M. Witznath (Berlin, Germany), G. Matute-Bello (Seattle, United States of America), S. Uhlig (Aachen, Germany)

- P800 Recurrent recruitment manoeuvres are required to maintain lung functions during low tidal volume ventilation of healthy mice  
L. K. Reiss, S. Uhlig (Aachen, Germany)
- P801 Patterns of plasma membrane disruptions distribution in mechanically ventilated lungs  
M. Pecchiari, A. Monaco, A. Koutsoukou, E. D'Angelo (Milan, Italy; Athens, Greece)
- P802 Dexamethasone reduces lung inflammation induced by alveolar stretch in mice  
J. Hegeman, M. Hennis, P. Cobelens, A. Kavelaars, N. Jansen, K. van der Sluijs, M. Schultz, A. van Vught, C. Heijnen (Amsterdam, Utrecht, The Netherlands)
- P803 Intermedin stabilized endothelial barrier function and attenuated ventilator-induced lung injury in mice  
H. C. Müller, W. Kummer, U. Pfeil, K. Hellwig, D. Will, A. C. Hocke, S. Hippenstiel, N. Suttorp, W. Martin (Berlin, Giessen, Germany)
- P804 Plasma levels of LL37 in patients with and at risk of acute lung injury  
R. Dancer, G. Perkins, D. Park, D. Thickett (Birmingham, Coventry, United Kingdom)
- P805 Preventive and therapeutic effects of phosphoinositide 3-kinase inhibitors on acute lung injury  
X. Fang, C. Chen, Y. Wang, X. Chen, C. Bai, X. Wang (Shanghai, Wenzhou, Chongqing, China)
- P806 Adenosine but not the A2A adenosine receptor agonist, CGS 21680 attenuates the endothelial cell barrier disruption induced by lipopolysaccharide  
J. Gonzales, A. Verin (Augusta, United States of America)
- P807 Use of lipids in a murine model of ALI and lymphocyte apoptosis – Harmful or beneficial?  
J. Ott, B. Bausch, M. Rose, A. Mohr, M. Hecker, W. Seeger, K. Mayer (Giessen, Germany)
- P808 Eugenol dose-dependent improvement of pulmonary lesions in lipopolysaccharide acute lung injury  
C. Magalhães, N. Casquilho, M. Machado, D. Riva, R. Fortunato, J. H. Leal Cardoso, L. Travassos, W. Zin (Rio de Janeiro, Fortaleza, Brazil)
- P809 Increased uric acid levels in bronchoalveolar lavage fluid of mice infected with H1N1 influenza  
M. Kuipers, M. Hegeman, H. Aslami, G. Jongmsa, C. Wieland, M. Schultz, K. van der Sluijs (Amsterdam, The Netherlands)
- P810 Effects of vitamin D on alveolar epithelial wound repair and cell survival  
R. Dancer, S. Zheng, V. D'Souza, F. Gao, D. Thickett (Birmingham, Coventry, United Kingdom)
- P811 Modeling resolution of direct acute lung injury  
B. Patel, M. Wilson, M. Takata (London, United Kingdom)
- P812 Fas activation impairs the alveolar epithelial function in mice by mechanisms involving apoptosis  
R. Herrero, L. S. Smith, O. Kajikawa, S. Mongovin, V. A. Wong, G. Matute-Bello, T. R. Martin (Seattle, United States of America)
- P813 Resolvin D1 attenuates lung inflammation in LPS induced-ALI partly through PPAR $\gamma$ /NF- $\kappa$ B pathway  
Z. Liao, J. Dong, T. Wang, F. Wen (Chengdu, China)
- P814 A CXCR2 antagonist inhibits polyI:C-induced airway neutrophil, but not lymphocyte infiltrate  
P. Harris, R. Peng, L. Burns, J. E. Phillips, J. S. Fine, C. S. Stevenson (Nutley, United States of America)
- P815 Temporal characterization of murine genomic response to poly I:C stimulation reveals tri-phasic inflammatory response signatures  
S. Sridhar, P. Harris, J. Allard, R. Peng, P. Ravindran, H. Bitter, M. E. Burczynski, J. S. Fine, C. S. Stevenson (Nutley, United States of America)
- P816 Molecular mechanisms are involved in ethanol mediated lung endothelial barrier dysfunction  
U. Siddaramappa, A. Verin (Augusta, United States of America)
- P817 Effect of proteinase inhibitor from *crataeva tapia* (cratabl) in distal lung mechanical, inflammatory and remodeling alterations induced by elastase in mice  
L. V. Oliva, R. Almeida-Reis, O. Theodoro, Jr., B. T. Martins-Oliveira, C. R. Olivo, T. V. Lopes, A. C. Toledo, R. S. Ferreira, M. V. Brito, M. A. Martins, M. L. V. Oliva, I. F. L. C. Tiberio (São Paulo, Brazil)
- P818 Intravenous immunoglobulin in community acquired pneumonia  
U. Farkhutdinov, A. Mirchaidarov, S. Farkhutdinov (Ufa, Russian Federation)
- P819 PTX3 as a component of innate immunity in the role of captopril in acute lung injury induced by bacterial endotoxin  
X. He, S. Wang, S. Xia, X. Liu, N. Song (Shenyang, China)

**Thematic Poster Session: Drug delivery and pharmacokinetics 1****Chairs: N. Barnes (London, United Kingdom), E. Derom (Gent, Belgium)**

- P820 The effect of ketoconazole on the pharmacokinetics (PK) and pharmacodynamics (PD) of inhaled fluticasone furoate (FF) and vilanterol (VI) administered in combination in healthy subjects  
R. Kempford, A. Allen, J. Bal, D. Rubin, L. Tombs (Stevenage, Uxbridge, Slough, United Kingdom; Research Triangle Park, United States of America)
- P821 Vilanterol, a novel inhaled long-acting  $\beta_2$  adrenoceptor agonist (LABA), demonstrates extensive first pass clearance to metabolites with negligible pharmacological activity in man  
A. Harrell, S. Siederer, J. Bal, R. Kempford (Ware, Stevenage, Stockley Park, United Kingdom)
- P822 Safety, pharmacokinetics (PK) and pharmacodynamics (PD) of single doses of GSK573719 inhalation powder, a new long-acting muscarinic antagonist (LAMA), in patients with COPD  
R. Mehta, A. Newlands, D. Kelleher, A. Preece, A. Cahn, G. Crater (Research Triangle Park, United States of America; Uxbridge, Stevenage, United Kingdom)
- P823 The pharmacodynamics of GSK961081 in patients with COPD  
V. Norris, C. Q. Zhu, C. Ambery (Stevenage, Uxbridge, United Kingdom)
- P824 The safety, tolerability, pharmacodynamics and pharmacokinetics of inhaled fluticasone furoate (FF) and vilanterol (VI) are unaffected by administration in combination  
R. Kempford, A. Allen, P. Bareille, H. Bishop, M. Hamilton, A. Cheesbrough (Stevenage, Uxbridge, Ware, United Kingdom)
- P825 Aspirin inhalation treatment for COPD patients: Preliminary studies on PK and inflammatory biomarkers  
A. Soleti, G. Zuccari, C. Omini (Torino, Paullo, Italy)
- P826 Pharmacokinetic bioequivalence of inhaled CHF 1535 50/6 vs. the free combination of beclomethasone and formoterol in asthmatic children  
B. L. K. Chawes, A. Piccinno, E. Kreiner-Møller, N. L. Skytt, N. Samandari, F. Sergio, G. Ciurlia, D. Acerbi, H. Bisgaard (Gentofte, Denmark; Parma, Italy)
- P827 Contamination and carry-over in clinical pharmacokinetic trials with aerosolized budesonide  
D. Kappeler, D. Zanker, B. Daumann, O. Eickelberg, T. Meyer (Gauting, Munich, Germany)
- P828 Fluticasone/salmeterol combined in the new Forspiro® inhaler is as effective and safe as Seretide® Accuhaler® in adult and pediatric asthmatics  
P. Kuna, U. Thyroff-Friesinger, I. Gath (Lodz, Poland; Holzkirchen, Germany)
- P829 Effect of systemic and extra-fine particle inhaled corticosteroids on corrected alveolar nitric oxide (CANO) in COPD  
P. Williamson, P. Short, B. Lipworth (Dundee, United Kingdom)
- P830 Lung deposition of the extrafine dry powder fixed combination beclomethasone dipropionate plus formoterol fumarate via the NEXT DPI® in healthy subjects, asthmatic and COPD patients  
F. Mariotti, F. Sergio, D. Acerbi, T. Meyer, C. Herpich (Parma, Italy; Gauting, Germany)
- P831 A novel NEXT DPI® dry powder inhaler and its use in asthmatic and COPD population  
F. Sergio, A. Chetta, G. Pisi, M. Aiello, D. Olivieri (Parma, Italy)
- P832 Efficiency of ipratropium bromide and salbutamol deposition in the lung delivered via a soft-spray inhaler or chlorofluorocarbon metered-dose inhaler  
M. Ghafouri (Ridgefield, United States of America)
- P833 Maintenance of lung function and asthma control with extrafine beclomethasone/formoterol  
N. Barnes, J. A. Van Noord, C. Brindicci, L. Lindemann, G. Varoli, M. Perpina, D. Guastalla, D. Casula, P. Chanez (London, United Kingdom; Heerlen, The Netherlands; Parma, Italy; Gelsenkirchen, Germany; Valencia, Spain; Marseille, France)
- P834 Phase II study of once-daily GSK573719 inhalation powder, a new long-acting muscarinic antagonist, in patients with chronic obstructive pulmonary disease (COPD)  
D. Kelleher, A. Preece, R. Mehta, A. Donald, K. Hards, A. Cahn, G. Crater (Research Triangle Park, United States of America; Uxbridge, Stevenage, United Kingdom)
- P835 Optimization of inhalation treatment – Evaluation of influence of PNEUMologic® and Optimiser® spacers on aerosol particle distribution from pMDI-EB  
Z. Podolec, J. Siekaniec (Cracow, Poland)
- P836 In vitro comparison of aerosol characteristics of HFA ipratropium bromide pressurized metered dose inhaler (pMDI) formulation from three valved holding chambers (VHCs)  
K. Nikander, L. Slator, D. von Hollen, R. Hatley (Parsippany, United States of America; Chichester, United Kingdom)
- P837 Airway humidity during oxygen therapy: Impact of humidification and applicator design  
M. Wenzel, D. Dellweg, E. Höhn, O. Bourgund, P. Haidl (Schmallenberg, Germany)
- P838 Objective measurement of inhalation profiles in patients using metered dose inhalers (MDIs)  
W. Azouz, P. Chetcuti, H. Hosker, D. Saralaya, H. Chrystyn (Huddersfield, Leeds, Steeton, Bradford, United Kingdom)
- P839 In-vitro nebulised dose emission characteristics of a tobramycin solution (75mg/ml) using an I-Neb (I-NEB) and a pari LC+ driven by a TurboBoy compressor (PARI) nebuliser  
M. Y. Khan, N. Powles, M. Stirling, H. Chrystyn (Huddersfield, United Kingdom)

## Thematic Poster Session: Translational models of disease

**Chairs:** P. Kirkham (London, United Kingdom), K. Tomita (Osakasayama, Japan), Z. Diamant (Rotterdam, The Netherlands)

- P840 Transient receptor potential ankyrin 1 (TRPA1)-mediated cough  
M. Brozmanova, L. Mazurova, F. Ru, M. Tatar, M. Kollarik (Martin, Slovakia; Baltimore, United States of America)
- P841 Toxicity and safety of dextromethorphan inhalation in a mouse model prior its use in humans  
A. Bar-Shai, A. Starr, Y. Schwarz (Tel Aviv, Israel)
- P842 Non-genomic effect of glucocorticoids on inhibition of expression of CD63 on peripheral blood basophils  
K. Tomita, H. Zushi, N. Watatani, S. Yamagata, H. Ichihashi, R. Satoh, H. Sano, H. Kume, R. Haraguchi, Y. Tohda (Osakasayama, Sakai, Japan)
- P843 Expression and functionality of P-glycoprotein in human bronchial epithelial cells *in vitro*  
V. Hutter, C. Hilgendorf, A. Cooper, V. Zann, D. Pritchard, C. Bosquillon (Nottingham, Leicestershire, United Kingdom; Mölndal, Sweden)
- P844 Fluticasone furoate, a novel corticosteroid, maintains glucocorticoid receptor nuclear localisation for 24 hours after washout in monocytes  
A. Hakim, M. Johnson, P. Barnes, I. Adcock, O. Usmani (London, United Kingdom)
- P845 Roflumilast N-oxide, a selective PDE4 inhibitor, curbs platelet-leukocyte interactions  
L. Totani, A. Piccoli, C. Amore, A. Di Santo, N. Martelli, G. Dell'Elba, V. Evangelista (Santa Maria Imbaro, Italy)
- P846 A-kinase anchoring proteins as novel regulators of airway smooth muscle function  
W. J. Poppinga, A. Oldenburger, W. Timens, P. Skroblin, E. Klussmann, H. Meurs, M. Schmidt, H. Maarsingh (Groningen, The Netherlands; Berlin, Germany)
- P847 Bosentan is superior to ambrisentan in reducing the expression of asthma- and COPD-related cytokines  
J. Knobloch, Y. Lin, D. Jungck, K. Urban, J. Strauch, E. Stoelben, J. Behr, A. Koch (Bochum, Cologne, Germany)
- P848 Simvastatin selectively inhibits TSLP-production in primary bronchial epithelial cells from COPD donors  
A. Brandelius, J. Calvén, L. Bjermer, I. Mahmutovic Persson, C. Persson, M. Andersson, L. Uller (Lund, Sweden)
- P849 Effects of corticosteroid or montelukast associated to iNOS inhibitor on inflammation and remodelling of distal lung in animals with chronic inflammation  
F. C. R. de Souza, N. B. Gobato, C. M. Prado, E. A. Leick, M. de Arruda Martins, I. de Fátima Lopes Calvo Tibério (São Paulo, Diadema, Brazil)
- P850 The effect of the different methanolic extracts of *nigella sativa* on tracheal responsiveness of guinea-pigs  
R. Keyhanmanesh, H. Bagban, M. R. Alipour, F. Mirzaei Babil, M. Ahmady, M. A. Ebrahimi Sadatloo (Tabriz, Islamic Republic of Iran)
- P851 Effects of acridinium on cigarette smoke-induced fibroblast activation *in vitro*  
J. Milara, T. Peiró, A. Serrano, J. Gustavo, A. Gavalda, M. Miralpeix, E. Morcillo, J. Cortijo (Valencia, Barcelona, Spain)
- P852 Effects of acridinium on airway remodelling in guinea pigs chronically exposed to cigarette smoke  
D. Domínguez-Fandos, R. Puig-Pey, E. Ferrer, C. Carreño, M. Aparici, J. Beleta, N. Prats, M. Miralpeix, A. Gavalda, V. I. Peinado, J. A. Barberà (Barcelona, Spain)
- P853 Effects of acridinium on respiratory function in guinea pigs chronically exposed to cigarette smoke  
E. Ferrer, D. Domínguez-Fandos, R. Puig-Pey, C. Carreño, M. Aparici, J. Beleta, N. Prats, A. Gavalda, M. Miralpeix, V. I. Peinado, J. A. Barberà (Barcelona, Spain)
- P854 Protective effect of lecithinized superoxide dismutase (PC-SOD) against elastase-induced pulmonary emphysema in mice  
K. I. Tanaka, T. Mizushima (Kumamoto, Japan)
- P855 Prevention of adverse pulmonary consequences of myocardial ischaemia in rats  
F. Petak, G. Albu, E. Lele, M. Beghetti, W. Habre (Szeged, Hungary; Geneva, Switzerland)
- P856 Can streptomycin prevent the selection of isoniazid-resistant mutants in nude mice infected with *M. tuberculosis*?  
C. Andrejak, S. Tyagi, E. Nueremberger, J. Grosset (Baltimore, United States of America)
- P857 Soluble guanylate cyclase stimulator riociguat prevents fibrotic tissue remodeling and improves survival in salt-sensitive Dahl rats  
J. P. Stasch, S. Geschka, B. Lawrenz, Y. Sharkovska, B. Hoher, O. V. Evgenov, A. Kretschmer (Wuppertal, Berlin, Germany; Boston, United States of America)
- P858 AZD3199: A fast acting  $\beta_2$ -receptor agonist with a long duration of action  
A. Young, R. Bonnert, E. Cadogan, S. Connolly, P. Gardiner, S. Jordan, D. Nicholls, S. Paine, G. Pairaudeau, M. Stocks (Loughborough, United Kingdom)
- P859 An assessment of the functional profile of acridinium in human bronchi and left atria  
J. Milara, E. Gabarda, A. Gavalda, M. Miralpeix, J. Beleta, E. Morcillo, J. Cortijo (Valencia, Barcelona, Spain)

**Thematic Poster Session: Bronchodilators in asthma and COPD**

**Chairs:** M. Cazzola (Rome, Italy), R. Dahl (Aarhus, Denmark), C. Page (London, United Kingdom), R. Polosa (Catania, Italy)

- P860 Efficacy of indacaterol is maintained in patients with moderate or less and severe or worse COPD  
S. Korn, O. Kornmann, L. Dunn, D. Lawrence, C. Lassen, B. Kramer (Mainz, Frankfurt, Germany; Clearwater, Hanover, United States of America; Horsham, United Kingdom)
- P861 Efficacy of indacaterol in COPD is maintained irrespective of inhaled corticosteroid (ICS) use  
R. Dahl, C. Fogarty, D. Lawrence, C. Lassen, B. Kramer (Aarhus, Denmark; Spartanburg, Hanover, United States of America; Horsham, United Kingdom)
- P862 The efficacy of the assistant use of short-acting  $\beta_2$  stimulant procaterol on the daily activity in COPD patients. Niigata multicenter study  
K. Sakai, H. Nakayama, S. Hokari, R. Suzuki, A. Takiguchi, T. Takada, E. Suzuki, I. Narita (Niigata, Japan)
- P863 Onset of action and effect of withdrawal of roflumilast in COPD  
K. Rabe, T. Similowski, D. Bredenbröker, P. Teichmann, G. Böszörményi-Nagy (Grosshansdorf, Konstanz, Germany; Paris, France; Budapest, Hungary)
- P864 Doxofylline: Efficacy and safety in complex treatment of COPD  
T. Pertseva, K. Gashynova, N. Klimenko (Dnipropetrovsk, Ukraine)
- P865 Efficacy and safety of nebulized glycopyrrolate (EP-101) for administration using high efficiency nebulizer in patients with COPD  
D. Singh, B. Leaker, A. Tutuncu (Manchester, London, United Kingdom; San Diego, United States of America)
- P866 NVA237 once daily provides rapid, clinically meaningful and sustained 24-h bronchodilation in patients with COPD: The GLOW1 trial  
A. D'Urzo, G. Ferguson, M. Kato, S. Atis, C. Martin, V. K. T. Alagappan, D. Banerji, Y. Lu, T. Overend (ON, Canada; Livonia, East Hanover, United States of America; Osaka, Japan; Icel, Turkey; Horsham, United Kingdom)
- P867 NVA237 once daily improves dyspnea and health-related quality of life (HRQoL) in patients with COPD: The GLOW1 trial  
J. A. van Noord, K. Hirata, A. D'Urzo, C. Martin, R. Horton, Y. Lu, T. Overend (Heerlen, The Netherlands; Abenoku, Japan; ON, Canada; Horsham, United Kingdom; East Hanover, United States of America)
- P868 Efficacy and safety of AZD3199, an inhaled ultra long-acting  $\beta_2$ -agonist, in patients with COPD  
P. Kuna, Y. Ivanov, V. Trofimov, O. Beckman, T. Bengtsson, C. Jorup, F. Maltais (Lodz, Poland; Pleven, Bulgaria; St. Petersburg, Russian Federation; Lund, Sweden; Quebec, Canada)
- P869 Clinical efficacy and patients' satisfaction for 100 consequent COPD patients using tiotropium respimat  
M. Kato, T. Teranishi, T. Kobayashi, Y. Izuhara, Y. Higami, Y. Koshimo, S. Marumo, K. Miura, M. Kawashima (Kishiwada, Japan)
- P870 Influence of tiotropium bromid on airway inflammation and symptom in COPD patients  
D. Ozol, H. Karaman, R. Akgedik, S. Uysal, R. Yigitoglu, Z. Yildirim (Ankara, Turkey)
- P871 The impact of tiotropium on mortality when added to inhaled corticosteroids and long-acting beta agonist therapy in COPD  
P. Short, D. Elder, P. Williamson, S. Lipworth, S. Schembri, B. Lipworth (Dundee, St. Andrews, Perth, United Kingdom)
- P872 Assessments of protective effects of tiotropium bromide against methacholine- and neurokinin A-induced bronchoconstriction in patients with asthma  
E. Derom, Y. Van Durme, B. Salhi, C. Vander Stichele, F. Bauters, J. Sele, R. Louis, G. Joos (Ghent, Liège, Belgium)
- P873 ACCORD COPD I: Improvements in nighttime symptoms and rescue medication use in COPD with twice-daily acclidinium bromide  
E. Kerwin, S. Rennard, A. Gelb, L. Rekeda, E. Garcia Gil, C. Caracta (Medford, Omaha, Lakewood, Jersey City, United States of America; Barcelona, Spain)
- P874 Improvement in symptoms and rescue medication use with acclidinium bromide in patients with chronic obstructive pulmonary disease: Results from ATTAIN  
A. Agusti, P. W. Jones, E. Bateman, D. Singh, R. Lamarca, G. de Miquel, C. Caracta, E. Garcia Gil (Barcelona, Spain; London, Manchester, United Kingdom; Cape Town, South Africa; , United States of America)
- P875 The ATTAIN study: Bronchodilatory effect of acclidinium bromide in chronic obstructive pulmonary disease (COPD)  
D. Singh, E. D. Bateman, P. W. Jones, A. Agusti, R. Lamarca, G. de Miquel, C. Caracta, E. Garcia Gil (Manchester, London, United Kingdom; Cape Town, South Africa; Barcelona, Spain; , United States of America)
- P876 ACCORD COPD I: Twice-daily acclidinium bromide improves quality of life and dyspnea in COPD patients  
A. Gelb, J. Donohue, A. D'Urzo, L. Rekeda, E. Garcia Gil, J. Lateiner (Lakewood, Chapel Hill, Jersey City, United States of America; Toronto, Canada; Barcelona, Spain)

- P877 Acclidinium bromide in patients with chronic obstructive pulmonary disease: Improvement in health status in ATTAIN  
P. W. Jones, A. Agusti, E. D. Bateman, D. Singh, R. Lamarca, G. de Miquel, C. Caracta, E. Garcia Gil (London, Manchester, United Kingdom; Barcelona, Spain; Cape Town, South Africa; , United States of America)
- P878 Dose-related efficacy of GSK573719, a new long-acting muscarinic receptor antagonist (LAMA) offering sustained 24-hour bronchodilation, in COPD  
M. Decramer, ERS President 2011, F. Maltais, G. Feldman, J. Brooks, L. Willits, S. Harris, G. Crater (Leuven, Belgium; Laval, Canada; Spartanburg, Research Triangle Park, United States of America; Uxbridge, United Kingdom)
- P879 Fixed combination of glycopyrrolate and formoterol MDI (GFF-MDI) demonstrates superior inspiratory capacity (IC) compared to tiotropium DPI (Tio) following 7 days dosing, in a randomized, double-blind, placebo-controlled phase 2b study in patients with COPD  
C. Reisner, E. St. Rose, S. Strom, T. Fischer, M. Golden, M. Thomas, C. Orevillo (Morristown, Raleigh, United States of America; Toowong, Australia)

HALL 2-20

SESSION 97

12:50 - 14:40

**Thematic Poster Session: Asthma: control and treatment****Chairs: I. Pavord (Leicester, United Kingdom), I. Vachier (Montpellier, France), C. Corrigan (London, United Kingdom)**

- P880 The WHO classification of severe asthma in intensive care patients  
T. K. Lim, L. Prabakaran, J. Abisheganaden, G. Chua, B. H. Heng, Y. Sun (Singapore)
- P881 Correlation between asthma severity and indices of daily monitoring of peripheral arterial pressure  
L. Iashyna, Y. Feschenko, M. Polianska, S. Ishchuk, I. Chumak, E. Potochniak, I. Jawad, L. Savelieva, S. Moskalenko (Kiev, Ukraine)
- P882 Comparison of efficacy of gripe vaccination in asthma and COPD patients  
Z. Stojanovski, G. Andonovski (Skopje, Vinicka, FYROM)
- P883 Association of vitamin D receptor (Fok-I) polymorphism with asthma in Tunisian children  
H. Maalmi, H. Abid, J. Ammar, A. Berraies, K. Hamzaoui, A. Hamzaoui (Tunis, Ariana, Tunisia)
- P884 The influence of heated heliox-driven nebulizer therapy on pulmonary hypertension and arterial oxygenation of patients with bronchial asthma  
H. Loshkareva, S. Grigoriev, O. Aleksandrov (Moscow, Russian Federation)
- P885 Scheduled asthma management in general practice – Generally increases asthma control in those who attend  
V. Backer, D. Knudsen, H. Ommen (Copenhagen, Vejle, Loegum Kloster, Denmark)
- P886 Is mild asthma outside the guidelines?  
O. Vakhno, V. Kupaev, J. Bogdanova (Samara, Russian Federation)
- P887 Determining of predicting factors affecting disposition of patients with acute asthma referred to emergency ward  
A. Taghizadieh (Tabriz, Islamic Republic of Iran)
- P888 Comparative efficacy of the therapy strategies for the asthma control maintenance in real clinical practice  
L. Ogorodova, E. Kulikov, I. Deev (Tomsk, Russian Federation)
- P889 Efficiency of different strategies of asthma control achievement in real clinical practice  
L. Ogorodova, E. Kulikov, I. Deev (Tomsk, Russian Federation)
- P890 Effect of whole body periodic acceleration on airway endothelial function in smokers, non-smokers and asthmatics  
J. Cancado, E. Mendes, J. Arana, P. Rebolledo, C. Dezfulian, A. Wanner (Miami, United States of America)
- P891 Successful implementation of an asthma care bundle in a UK hospital  
A. Gill, R. Naseer, A. Hart-Thomas, A. Graham (Huddersfield, United Kingdom)
- P892 Montelukast plus inhaled budesonide versus double dose inhaled budesonide in nonasthmatic eosinophilic bronchitis  
C. Cai, S. Q. Zhong, Y. Tang, N. S. Zhong (Guangzhou, China)
- P893 Clinical course and outcome of patients with status asthmaticus in a tertiary care centre in Pakistan over the last ten years  
A. Zubairi, S. J. Husain, Z. Waheed (Karachi, Pakistan)
- P894 Fluticasone/formoterol combined in a single aerosol inhaler vs budesonide/formoterol for the treatment of asthma: A non-inferiority trial  
A. Bodzenta-Lukaszyk, R. Buhl, B. Bálint, M. Lomax, K. Spooner (Bialystok, Poland; Mainz, Germany; Deszk, Hungary; Cambridge, United Kingdom)
- P895 Functional effects of long term ICS treatment in controlled asthma  
A. Petroianni, V. Conti, E. Lemontzi, I. Mininni, F. Oriolo, V. D'Alù, L. Locorriere, C. Terzano (Rome, Italy)
- P896 Anti-immunoglobulin E antibodies may improve remodeling in a mouse model of asthma  
M. Mizuguchi, T. Okada, R. Seki, K. Ohmori, K. Fukuda, K. Akasaka, K. Kohyama, N. Fueki, H. Sagara (Koshigaya, Maebashi, Japan)

## SUNDAY SEPTEMBER 25

HALL 2-21

SESSION 98

12:50 - 14:40

**Thematic Poster Session: Monitoring exacerbations of airway diseases****Chairs: C. Scoditti (Mesagne, Italy), A. Olin (Gothenburg, Sweden)**

- P897 Impact of checklist proforma on discharge and follow up care of patients admitted with COPD exacerbations  
M. Murthy, R. Sarkar, H. Metcalfe, S. Taylor, G. Jones, J. Bayliss, R. Stead, M. Babores (Macclesfield, United Kingdom)
- P898 COPD assessment test correlation with the increase of the inflammatory markers in COPD exacerbations  
Z. I. Fratila, I. Iovan, D. Vancea (Timisoara, Romania)
- P899 Detection of acute health status deterioration among COPD patients by monitoring COPD assessment test score  
C. Pothirat, W. Chaiwong, A. Limsukon, A. Deesomchok, C. Liewrisakul, C. Bumroongkit (Chiang Mai, Thailand)
- P900 Use of COPD assessment (CAT) test in monitoring acute exacerbations  
I. Shafiq, K. Huggett, L. Idris, B. Rudran, T. Shaw (Bournemouth, United Kingdom)
- P901 Evaluation of high-sensitivity C-reactive protein in acute asthma  
E. Razi, H. Ehteram, H. Akbari, V. Chavoshi, A. Razi (Kashan, Tehran, Islamic Republic of Iran)
- P902 Effects of home oximetry on chronic obstructive pulmonary disease exacerbations  
M. Y. Chew, T. K. Lim, P. Chong, M. Tang, C. Lim (Singapore, Singapore)
- P903 Clinical validity of blood and urinary desmosine as biomarkers for chronic obstructive pulmonary disease  
J. Huang, R. Chaudhuri, A. Barton, J. Brady, C. Grierson, O. Albarbarawi, P. Rauchhaus, C. Weir, M. Messow, C. McSharry, G. Feuerstein, S. Mukhopadhyay, C. Palmer, D. Miller, N. Thomson (Dundee, Glasgow, United Kingdom; Collegeville, United States of America)
- P904 Clinical and functional assessment according to the exacerbating phenotype in COPD  
V. Almadana, A. Valido, R. Tallón, J. Sánchez, C. Romero, T. Montemayor (Sevilla, Spain)
- P905 The number of exacerbations in children and adolescents with cystic fibrosis (CF) can be predicted by computed tomography (CT) bronchiectasis (BE) score and quality of life scores  
L. Tepper, E. Utens, A. Quittner, K. Gonzalez-Graniel, H. Duivenvoorden, H. Tiddens (Rotterdam, The Netherlands; Miami, United States of America)
- P906 Factors determining duration of hospital stay in patients hospitalized for acute COPD exacerbation  
F. Diamantea, S. Tsikrika, F. Karakontaki, D. Mitromaras, E. Stagaki, E. Kastanakis, V. Polychronopoulos (Athens, Greece)
- P907 VentCheck: Spot measurement of combined oximetry & cutaneous carbon dioxide to screen for type II respiratory failure in respiratory illness  
P. Chaudhari, A. Kate, F. Baty, J. Leuppi, P. Chhajed (Mumbai, NaviMumbai, India)
- P908 Early detection of asthma exacerbations and the use of action points for treatment decisions in self-management plans  
P. J. Honkoop, D. R. Taylor, J. B. Snoeck-Stroband, J. K. Sont (Leiden, The Netherlands; Dunedin, New Zealand)
- P909 Regular follow-up in severe asthma may reduce the rate of exacerbations and the FEV1 decline  
F. L. Dente, F. Novelli, M. L. Bartoli, M. Carli, S. Cianchetti, A. Di Franco, E. Bacci, P. L. Paggiaro (Pisa, Italy)
- P910 Correlation of dyspnea and physiological impairment in COPD exacerbation  
T. Cvok, B. Milenkovic, P. Rebic (Belgrade, Republic of Serbia)
- P911 Serum uric acid and uric acid/creatinine ratio in exacerbations of COPD  
A. Papadopoulos, K. Bartzikas, A. Haniotou, K. Kostikas (Athens, Greece)
- P912 Patient experiences of exacerbations in a real world setting: Global results from the Hidden Depths survey  
N. Barnes, P. M. A. Calverley, A. Kaplan, K. F. Rabe (London, Liverpool, United Kingdom; Ontario, Canada; Grosshansdorf, Germany)
- P913 Impact of climate change on COPD in Berlin-Brandenburg – Developing a telemonitoring based approach for early intervention  
N. Döhnert, M. Haug, U. Liebers, F. Köhler, R. Kreutz, G. Schönfelder, M. Langner, W. Endlicher, C. Witt (Berlin, Germany)
- P914 Sputum biomarkers in COPD exacerbations  
S. Soter, I. Barta, B. Antus (Budapest, Hungary)

HALL 2-22

SESSION 99

12:50 - 14:40

**Thematic Poster Session: Monitoring with lung function tests in airway diseases****Chairs: J. Sont (Leiden, The Netherlands), A. Zanini (Gavirate Va, Italy), P. Montuschi (Rome, Italy), A. Bikov (Miskolc, Hungary)**

- P915 Pulmonary function in sarcoidosis: A review of 85 cases using percentage predicted and lower limit of normal values to determine pattern of pulmonary function deficit  
C. Atkins, A. Wilkes, O. Twentymen (Norwich, United Kingdom)
- P916 A negative result of airway reversibility test in obstructive airway disease does not mean no reserve of lung function  
S. J. Lee, S. N. Lee, M. K. Lee, K. C. Shin, S. J. Yong, S. H. Kim, W. Y. Lee (Wonju, Republic of Korea)



- P917 Comparison between presence of respiratory symptoms and peak expiratory flow (PEF) values <80% predicted as screening tools for obstructive airways diseases (OAD)  
M. Barne, K. Apte, S. Chhowala, B. Pachisia, B. Brashier, S. Madas, J. Gogtay, S. Salvi (Pune, Mumbai, India)
- P918 Lung function differences between subjects with tobacco smoke-induced COPD (TS-COPD) and biomass smoke-induced COPD (BS-COPD) in an Indian population  
B. Brashier, N. Vanjare, V. Vincent, J. Londhe, S. Madas, S. Juvekar, P. Barnes, S. Salvi (Pune, India; London, United Kingdom)
- P919 Monitoring small airways disease (SAD) in cystic fibrosis (CF)  
I. Groothuis, S. Lever, K. Gonzalez Graniel, L. Tepper, E. M. Nieuwhof, E. van der Wiel, J. Kok-van der Weijde, H. Tiddens (Rotterdam, The Netherlands)
- P920 The use of forced oscillation technique (FOT) in assessment and stratification of disease severity in elderly COPD patients  
H. N. Tse, K. Y. Wong, K. S. Yee, K. Y. Wai (Hong Kong, Hong Kong)
- P921 Reproducibility data of breath analysis through a gas sensors array and comparison to spirometry in COPD patients  
S. Scarlata, G. Pennazza, D. Chiurco, M. Santonico, A. D'amico, R. Antonelli Incalzi (Rome, Italy)
- P922 Patients with fluctuant peak expiratory flow value in the absent category are insensitive to dyspnea and are at risk for severe asthma exacerbation  
K. Sugiyama, H. Hirata, N. Ikeda, T. Shiobara, M. Tatewaki, F. Fukushima, M. Arima, Y. Fukushima, T. Fukuda (Tochigi, Japan)
- P923 The use of forced oscillation technique (FOT) in assessment of airway obstruction and airtrapping in elderly COPD patients  
H. N. Tse, K. Y. Wong, K. Y. Wai, K. S. Yee (Hong Kong, Hong Kong)
- P924 Pulmonary function and exercise tolerance in glycogenosis type II (GSDII)  
G. Ciana, I. Toller, M. Guerra, B. Bembi, M. Canciani (Udine, Italy)
- P925 Expiratory flow limitation (EFL) detected non-invasively as a phenotypic characteristic of COPD  
B. B. Aarli, P. M. A. Calverley, T. M. L. Eagan, P. S. Bakke, J. A. Hardie (Bergen, Norway; Liverpool, United Kingdom)
- P926 Area under the maximum expiratory flow-volume curve a sensitive parameter in the evaluation of airway obstruction  
L. Legath, M. Varga, S. Perecinsky, M. Orolin (Kosice, Slovakia)
- P927 Determination of predominant site of airway obstruction in patients of bronchial asthma: Role of impulse oscillometry  
H. S. Hira, A. Kaur (New Delhi, India)
- P928 Short and long-term variability of oscillatory mechanics parameters in asthma  
A. Gobbi, C. Gulotta, P. Gasparini, R. Pellegrino, A. Majumdar, A. Pedotti, V. Brusasco, B. Suki, R. Dellaca' (Milano, Orbassano (TO), Cuneo, Genova, Italy; Boston, United States of America)
- P929 Determination of respiratory flow by tracheal sound-frequency-analysis  
V. Gross, D. Basu, M. Scholtes, F. Schudt, U. Koehler, K. A. Sohrabi (Giessen, Marburg, Germany)
- P930 Peripheral airway function in COPD assessed by Sacin and Scond using SF6 and He multiple breath washout  
M. Ström, P. Robinson, E. Viklund, S. Kjellberg, P. Gustafsson (Skövde, Sweden; Sydney, Australia)
- P931 Spatial heterogeneity in regional pulmonary function in COPD patients and healthy young and elderly subjects  
B. Gawelczyk, S. Pulletz, H. P. Hauber, P. Zabel, N. Weiler, I. Frerichs (Kiel, Borstel, Germany)
- P932 Evaluation of respiratory impedance in COPD by forced oscillation technique using a MostGraph  
Y. Yamauchi, T. Kohyama, H. Takizawa, M. Kase, M. Horie, Y. Mikami, T. Nagase (Tokyo, Kawasaki City, Japan)
- P933 Freeflowmetry – The new method of evaluation of the respiratory function phenotype  
Z. Podolec (Kracow, Poland)
- P934 Audit of a new mannitol challenge testing service in a UK tertiary centre  
M. Bucknall (London, United Kingdom)

HALL 2-23

SESSION 100

12:50 - 14:40

**Thematic Poster Session: Clinical parameters in airway diseases****Chairs: S. Loukides (Athens, Greece), A. Morice (Cottingham, United Kingdom)**

- P935 Tracheal sound level as a potential diagnostic tool for pulmonary obstructive syndromes  
T. A. Cernomaz, D. Boisteanu, R. Vasiluta, T. Mihaescu (Iasi, Romania)
- P936 Clinical interpretation of St George's respiratory questionnaire in Chinese COPD patients  
B. He, Y. Du, R. Liu (Beijing, China)
- P937 The usefulness of the chronic obstructive pulmonary disease assessment test  
Y. Hwang, J. Lee, H. Kim, J. Cho, Y. Kim (Jinju, Republic of Korea)
- P938 Collection of year-round hay fever symptoms using a public website ([www.allergieradar.nl](http://www.allergieradar.nl))  
L. A. de Weger, E. B. Op den Buysch, A. J. H. van Vliet (Leiden, Eindhoven, Wageningen, The Netherlands)
- P939 Factors associated with better asthma control in eastern Austria  
V. Bildheim, B. Reichardt, M. Wolzt, D. Doberer (Vienna, Austria)
- P940 Asthma control test: Cut off values of control according to GINA guideline and its ability to predict exacerbations and treatment decisions  
F. W. S. Ko, D. S. C. Hui, T. F. Leung, J. H. Y. Chu, G. W. K. Wong, S. S. S. Ng, C. K. W. Lai (HK, Hong Kong)

## SUNDAY SEPTEMBER 25

- P941 Relationship between quality of life, exercise capacity and disease severity in patients with chronic obstructive pulmonary disease  
M. Le Cheminant, G. Austin, C. Basu, T. Win (Stevenage, United Kingdom)
- P942 30 cases of tracheobronchopathia osteochondroplastica: Multicenter analysis  
S. W. Jung, Y. J. Kim, B. K. Lee, S. Y. Lee, C. Y. Jung, K. C. Kim, D. S. Hyun (Daegu, Republic of Korea)
- P943 Assessing the quality of life with CAT in bronchiectasis patients  
B. Mahler (Bucharest, Romania)
- P944 Results HEED Belgium – Health-related quality of life in patients by COPD severity within primary care in Belgium  
G. Brusselle, P. Jones, L. Adamek, N. Banik, A. Mehuys (Ghent, Genval, Belgium; London, United Kingdom)
- P945 Comparison of health status in stable patients with bronchiectasis due to common variable immune deficiency (CVID), and idiopathic bronchiectasis  
L. Ozerovitch, S. Prigmore, W. Banya, R. Wilson, N. Snell, P. Kelleher, J. Riley (London, United Kingdom)
- P946 Prospective evaluation of asthma control using three different classification systems  
S. Korn, J. Both, M. Hübner, C. Taube, R. Buhl (Mainz, Germany)
- P947 Objective measurement of activity of daily living and sleep in subjects with COPD  
J. McKenzie (Bend, United States of America)
- P948 Cough ability and oxygen saturation (OS) home monitoring in amyotrophic lateral sclerosis (ALS) patients: Preliminary data  
M. Paneroni, D. Trainini, M. Saleri, R. Peroni, M. Vitacca (Lumezzane, Italy)
- P949 Who win? Spirometry versus symptoms for predicting the longitudinal outcomes in COPD patients – 10 years observation  
S. Ion Gabriel, A. Teodorescu, D. Iulian Dan, A. Maria (Bucharest, Campulung Muscel, Galati, Romania)
- P950 Relation of asthma and chronic daily headache  
Y. S. Lee, J. S. Lee, S. D. Lee, D. S. Kim, Y. M. Oh (Seoul, Republic of Korea)
- P951 Effect of GERD on clinical severity and functional characteristics of lung function in asthma  
K. Ansarin, A. Sharifi (Tabriz, Islamic Republic of Iran)
- P952 Six-minute walk test: Comparison with cardiopulmonary exercise test performance, lung function and arterial blood gases in patients with bronchiectasis  
I. Gomes, M. van Zeller, P. Caetano Mota, P. Viana, C. Carrondo, A. Dantas, J. Almeida, A. Marques (Porto, Portugal)
- P953 Leicester cough questionnaire and sputum colour chart assessment in non-cystic fibrosis bronchiectasis: A cohort analysis  
P. Goeminne, A. Decraene, E. Moelants, K. Grauwen, P. Proost, L. Dupont (Leuven, Belgium)

HALL 2-24

SESSION 101

12:50 - 14:40

## Thematic Poster Session: Animal models of airway inflammation

Chairs: S-E. Dahlén (Stockholm, Sweden), M. Idzko (Freiburg, Germany)

- P954 T cell clone transfer model for steroid resistant asthma  
A. Mori, A. Abe, S. Koyama, N. Kitamura, M. Yamaguchi, C. Mitsui, C. Oshikata, H. Tanimoto, Y. Fukutomi, K. Sekiya, M. Taniguchi, Y. Maeda, M. Ohtomo, M. Hasegawa, K. Akiyama, T. Ohtomo, O. Kaminuma (Sagamihara, Hachioji, Tokyo, Japan)
- P955 PARP-1 deficiency blocks IL-5 expression through calpain-dependent degradation of STAT-6 in a murine asthma model  
A. Naura, R. Datta, M. Zerfaoui, Y. Errami, M. Oumouna, H. Kim, J. Ju, V. Ronchi, A. Hass, H. Boulares (New Orleans, United States of America)
- P956 Function of cAMP response element modulator in a murine asthma model  
E. Verjans, K. Reiss, N. Wagner, S. Uhlig, K. Tenbrock, C. Martin (Aachen, Germany)
- P957 Control of allergen-induced inflammation and hyperresponsiveness by the metalloproteinase ADAMTS-12  
G. Paulissen, M. El Hour, N. Rocks, M. Guéders, F. Bureau, J. M. Foidart, C. Lopez-Otin, A. Noel, D. Cataldo (Liège, Belgium; Oviedo, Spain)
- P958 Local inhibition of IL-4 and IL-13 protects lung function in OVA mouse model  
N. Stowell, M. Baumann, S. Bruckmaier, A. Cornelius, C. Kane, C. Lowenstein, K. Picha, G. Sennhauser, E. Yurkow, Z. Zhou, M. Stumpp, K. O'Neil (Radnor, United States of America; Zurich, Switzerland)
- P959 Effect of dietary nitrite and nitrated fatty acids on airway hyperresponsiveness and inflammation in a mouse model of asthma  
C. Kemi, S. Borniquel, J. Lundberg, M. Adner, S. E. Dahlén (Stockholm, Sweden)
- P960 Influence of acid sphingomyelinase deficiency in a murine model of allergen-induced asthma  
E. Verjans, D. Adam, C. Martin, S. Uhlig (Aachen, Kiel, Germany)
- P961 Modulation of oral tolerance on the oxidative stress responses in distal lung parenchyma of guinea pigs with chronic allergic inflammation  
R. Fraga Righetti, S. Souza Possa, V. C. Ruiz Schütz, H. Toledo Charafeddine, F. Cetinic Habrum, C. Máximo Prado, E. Aparecida Leick-Maldonado, M. Arruda Martins, I. Fátima Lopes Calvo (São Paulo, Diadema, Brazil)

- P962 AQP5 role in ovalbumin-induced airway inflammation and secretion of MUC5AC in mice  
C. Dong, G. Wang, M. Jin, B. Li, D. Wang, Z. Chen, Z. Ma, X. Wang, C. Bai (Shanghai, Changchun, China)
- P963 Effects of increase gradual OVA doses in the inhalations in a model of asthma to long term  
R. A. da Silva, F. M. de Almeida, C. R. Olivo, B. M. Saraiva, M. A. Martins, C. R. F. de Carvalho (São Paulo, Brazil)
- P964 Chronic airway inflammation alters the peripheral distribution of transferred mast cells in deficient C57BL/6-Kit<sup>W-sh/W-sh</sup> mice  
L. Sjöberg, B. Fuchs, C. Möller Westerberg, L. Swedin, S. E. Dahlén, M. Adner, G. Nilsson (Stockholm, Sweden)
- P965 Effects of chronic allergen exposure on the airway hyperreactivity in sensitized rats  
D. Czovek, Z. Novak, L. Barati, A. Banfi, F. Petak (Szeged, Budapest, Hungary)
- P966 Poly I:C treatment causes fatal AHR in sensitized mice  
M. Starkhammar, S. Georen-Kumlien, S. E. Dahlén, M. Adner, L. O. Cardell (Stockholm, Sweden)
- P967 The influence of female sex hormones on the number of alternatively activated lung macrophages and airway inflammation in a mouse model of asthma  
C. Draijer, M. Hylkema, R. Hofstra, P. Klok, W. Timens, D. Postma, B. Melgert (Groningen, The Netherlands)
- P968 Transcription factor FOXP3 is over expressed in BALT of systemic sclerosis model induced by collagen V nasal tolerance  
A. P. Velosa, W. R. Teodoro, I. C. Brindo da Cruz, E. R. Parra, A. dos Santos Filho, S. M. Fernezlian, V. L. Capelozzi, N. H. Yoshinari (São Paulo, Brazil)
- P969 The respiratory allergen glutaraldehyde in the local lymph node assay: Sensitization by skin exposure, but not by inhalation  
J. van Triel, D. Roberts, F. Kuper (Zeist, The Netherlands; Liverpool, United Kingdom)
- P970 Overexpression of peroxiredoxin 6 protect mice from ovalbumin-induced airway inflammation and hypersecretion of MUC5AC by reducing ROS levels  
C. Dong, B. Li, D. Yang, G. Wang, X. Wang, C. Bai (Shanghai, China)
- P971 Crucial role of phospholipase C $\epsilon$  in the development of asthma in mice  
T. Nagano, H. Edamatsu, K. Kobayashi, Y. Nishimura, T. Kataoka (Kobe, Japan)
- P972 Grape seed proanthocyanidin extract attenuates airway inflammation and hyperresponsiveness in a murine model of asthma: Downregulating inducible nitric oxide synthase  
Q. Zhang, G. Z. Wei, D. Y. Zhou, Q. Du, M. Huang (Changzhou, Nanjing, China)
- P973 The effects of bacilli Calmette Guerin-polysaccharide nucleic acid on nasal airway inflammation and resistance in allergic rhinitis mice  
Y. Xi, K. Lai, L. Han, N. Wu, Y. Hong, J. Xie, W. Luo, N. Zhong (Guangzhou, China)

HALL 2-25

SESSION 102

12:50 - 14:40

**Thematic Poster Session: Asthma: risk factors and comorbidities****Chairs: T. Popov (Sofia, Bulgaria), G. Moller (Capelle a/d IJssel, The Netherlands), F. Braido (Genova, Italy)**

- P974 Evaluation of inhalant allergen-specific IgE in wheezing infants as predictor for persistent symptoms  
S. Mileva, T. Popov, I. Galeva, M. Yankova (Sofia, Bulgaria)
- P975 Analysis of the environmental risk factors in patients with bronchial asthma, allergic to molds in second year observation  
G. Przybylski, A. Gadzinska, R. Golda, A. Dabrowska (Bydgoszcz, Poland)
- P976 Food allergy as a risk factor for habitual snoring  
C. Celani, G. Ragusa, E. Bonci, M. P. Carbone, S. Caggiano, A. M. Zicari, G. De Castro, M. Duse (Rome, Italy)
- P977 Atopy is a risk factor for adult asthma in two rural communities in south western Nigeria  
O. Ige, A. G. Falade, G. Arinola (Ibadan, Nigeria)
- P978 Peripheral airway obstruction is a predictive sign of early asthma  
T. Miyamoto, H. Kobayashi, A. Sato, Y. Utsumi, Y. Nakamura, K. Yamauchi (Morioka, Japan)
- P979 Does presence of bronchoprovocation test positivity effect the development of allergic respiratory disease: 7 year follow-up study  
Y. Havlucu, D. Yurtman Havlucu, S. Ozturkcan, A. Yorgancioglu (Manisa, Turkey)
- P980 Allergic rhinitis in asthmatic children  
V. Stojanovska, J. Buzarov (Skopje, FYROM)
- P981 Bronchial asthma and allergic rhinitis: Clinical, immunological and morphological features  
M. Guschin, V. Golovanova, T. Barkhina, S. Polner (Moscow, Russian Federation)
- P982 Lower airway inflammation and hyperresponsiveness in allergic and non-allergic rhinitis  
Y. Xie, J. Xie, K. Lai, N. Zhong (Guangzhou, China)
- P983 Nasal airway resistance and correlation with lower airway involvement in allergic rhinitis  
A. Iyer, A. Athavale (Mumbai, India)
- P984 Patients with asthma and comorbid allergic rhinitis: Is optimal quality of life achievable in real life?  
F. Braido, I. Baiardini, S. Menoni, F. Gani, G. E. Senna, E. Ridolo, V. Schoep, A. Rogkakou, G. W. Canonica (Genova, Turin, Verona, Parma, Italy)

## SUNDAY SEPTEMBER 25

- P985 Impact of adult rhinosinusitis on asthma severity  
M. Bashir, B. Haman, M. Shabani (Tripoli, Libyan Arab Jamahiriya)
- P986 Chronic rhino-sinusitis in severe asthma improves at high altitude  
L. H. Rijssenbeek-Nouwens, K. F. Fieten, A. O. Bron, E. J. Weersink, E. H. Bel (Davos, Switzerland; Amsterdam, The Netherlands)
- P987 The relationship of gastroesophageal reflux with asthma quality of life and asthma control test in asthmatic patients  
B. Gemicioglu, S. Börekçi, A. Haiatullah (Istanbul, Turkey)
- P988 The increased comorbidities in obese asthmatics  
N. Mazican, S. Börekçi, B. Gemicioglu (Istanbul, Turkey)
- P989 Asthma severity and bodymass index relationship  
E. Maden, T. Teke, S. Yosunkaya, D. M. Yavsan, M. Dinç, R. Metineren (Konya, Turkey)
- P990 The effect of obesity or overweight on airway hyperresponsiveness and clinical features in patients with asthma  
J. W. Kwon, T. W. Kim, S. H. Kim, H. R. Kang, T. B. Kim, H. W. Park, Y. S. Chang, S. H. Cho, H. B. Moon, K. U. Min, COREA Research Group (Seoul, Seongnam, Republic of Korea)
- P991 Prevalence of obstructive sleep apnea in patients with difficult-to-treat asthma  
S. Firat Guven, A. B. Dursun, B. Ciftci, O. Kar Kurt, F. Oner Erkeköl (Ankara, Turkey)
- P992 The role of inflammatory cells, adhesion molecules, intermediate filaments and chemokine receptors in the pathogenesis of nasal polyps  
M. Onerci, C. Elsurur, E. Guzel, A. Dagdeviren (Ankara, Turkey)

HALL 2-26

SESSION 103

12:50 - 14:40

## Thematic Poster Session: Respiratory epidemiology: genetics and modifiable risk factors

Chairs: H. M. Boezen (Groningen, The Netherlands), J. Garcia Aymerich (Barcelona, Spain)

- P993 European screening for  $\alpha_1$ -antitrypsin deficiency in subjects with lung disease  
T. Greulich, H. Metev, B. Budimir, G. Losonczy, L. Borsa, D. Vaicius, I. Solovic, M. Flezar, M. Vigdorovici, T. Martynenko, T. Pertseva, S. Camprubi (Marburg, Germany; Russe, Bulgaria; Zagreb, Croatia; Budapest, Hungary; Ventpils, Latvia; Vilnius, Lithuania; Hagy, Slovakia; Golnik, Slovenia; Oradea, Romania; Barnaul, Russian Federation; Dnepropetrovsk, Ukraine; Barcelona, Spain)
- P994 Alpha1-antitrypsin deficiency in Italy: Analysis of the Italian registry database  
I. Ferrarotti, S. Ottaviani, R. Scabini, M. Gorrini, M. Luisetti (Pavia, Italy)
- P995 The polymorphisms of C-reactive protein gene modify the association between central obesity, asthma and lung function in Taiwan  
T. H. Huang, T. Y. Yuan, R. L. Hsiao, T. N. Wang (Kaohsiung, Taiwan)
- P996 DNA and fatty acids oxidative stress in respiratory diseases: Preliminary results from the GEIRD study  
M. E. Zanolin, V. Cappa, P. Degan, P. Girardi, M. Olivieri, M. Nicolis, L. Perbellini, A. Jalil, R. de Marco (Verona, Genova, Italy)
- P997 Does genetic ancestry modify the relationship of smoking and lung function? The MESA lung study  
R. Powell, D. Davidson, D. Jasmin, J. J. Carr, R. Detrano, E. Hoffman, R. Jiang, R. Kronmal, K. Liu, N. Punjabi, E. Shahar, K. Taylor, K. Watson, J. Rotter, S. Rich, R. G. Barr (New York, Winston-Salem, Irvine, Iowa City, Seattle, Chicago, Baltimore, Tucson, Los Angeles, Charlottesville, United States of America)
- P998 The associations between the adult asthma, central obesity and gene polymorphisms and activities of superoxide dismutase and catalase  
R. L. Hsiao, L. L. Yang, T. H. Huang, T. Y. Yuan, T. N. Wang (Kaohsiung, Taiwan)
- P999 Chronic bronchitis in monozygotic and dizygotic twins  
H. Meteran, S. F. Thomsen, K. O. Kyvik, A. Skytthe, V. Backer (Copenhagen, Odense, Denmark)
- P1000 Birth mode and gut microbiota influence the risk of allergies and asthma – The KOALA birth cohort study  
J. Penders, R. van Nimwegen, E. Stobberingh, D. Postma, G. Koppelman, M. Kerkhof, N. Reijmerink, E. Dompeling, P. van den Brandt, M. Mommers, C. Thijs (Maastricht, Groningen, The Netherlands)
- P1001 Patterns of sensitization in early childhood in farming environment: A French part of the PASTURE/ FORALLVENT European birth cohort study  
A. Leydier, V. Kaulek, A. Chauveau, F. Metzger, E. von Mutius, D. A. Vuitton, J. C. Dalphin, M. L. Dalphin (Besançon, France; Munich, Germany)
- P1002 Air pollution and development of respiratory system: A 19-year cohort study among children in Ptolemaida, Greece  
A. Tsiotsios, D. Spyrtos, A. B. Haidich, G. Ganidis, D. Chloros, L. Sichletidis (Thessaloniki, Greece)
- P1003 Weather, pollution and topography in COPD exacerbations: An observational study in Worcester and Dudley, UK  
R. Lewis, G. Price, J. Emberlin (Worcester, United Kingdom)
- P1004 Spatial distribution of COPD in a rural population in India using geographic information system (GIS)  
V. Muralidharan, S. Salvi, J. Londhe, S. Sambhudhas, V. Ingole, P. Barnes, S. Juvekar (Pune, India; London, United Kingdom)
- P1005 Effect of urban vehicular traffic pollution on respiratory symptoms and pulmonary function in schoolchildren  
F. Cibella, R. Della Maggiore, G. Cuttitta, S. La Grutta, M. Melis, S. Bucchieri, D. Nuvolone, G. Viegi (Palermo, Florence, Italy)

- P1006 Long-term effect of urban air pollution on lung function  
V. Siroux, J. Lepeule, C. Arnould, A. Boudier, B. Jacquemin, I. Rios, C. Chappaz, X. Morelli, N. Künzli, F. Kauffmann, R. Slama, I. Pin (Grenoble, Villejuif, France; Basel, Switzerland)
- P1007 Effects of smoking habits on annual change in FEV<sub>1</sub>: A 12-year follow-up study  
H. Omori, A. Onoue, Y. Funakoshi, H. Yada, M. Nagano, S. Mihara, Y. Ogata, H. Kohrogi, T. Katoh (Kumamoto, Japan)
- P1008 Influences of smoking on FEV1 remain over the long-term after cessation  
S. Osanai, M. Aoki, T. Ogasa (Asahikawa, Japan)
- P1009 Reduced body mass index is associated with the presence of airflow obstruction in a rural Indian setting  
V. Moore, B. Chakrabarti, S. Purkait, P. Goon, C. Warburton, P. Calverley, J. Zaman, R. Mukherjee (London, Liverpool, Birmingham, United Kingdom; Chengail, India)
- P1010 Risk factors for obstructive lung function in morbidly obese patients  
A. van Huisstede, J. W. Elte, G. Mannaerts, E. Snoey, R. Luitwieler, E. Birnie, P. Hiemstra, G. J. Braunstahl (Rotterdam, Leiden, The Netherlands)
- P1011 Associations of different serum 25(OH)D levels to parameters of respiratory health in COPD patients  
L. J. P. Persson, M. Voll-Aanerud, P. Bakke, J. A. Hardie, P. S. Hiemstra, T. M. Eagan (Bergen, Norway; Leiden, The Netherlands)
- P1012 Microbial evaluation of proton pump inhibitors and the risk of pneumonia  
E. van de Garde, S. Meijvis, M. C. Cornips, P. Voorn, P. Souverein, H. Endeman, D. Biesma, H. Leufkens (Nieuwegein, Utrecht, Amsterdam, The Netherlands)

HALL 2-27

SESSION 104

12:50 - 14:40

**Thematic Poster Session: Respiratory epidemiology: comorbidity****Chairs: L. Carrozzi (Pisa, Italy), P. Bakke (Bergen, Norway)**

- P1013 Late-breaking abstract: A prospective study of central obesity, overall obesity and incident asthma in adults  
B. Brumpton, A. Langhammer, P. Romundstad, Y. Chen, X. M. Mai (Trondheim, Norway; Ottawa, Canada)
- P1014 Trends in co-morbidity in oxygen-dependent COPD  
M. Ekström, C. Jøgreus, K. Ström (Karlskrona, Sweden)
- P1015 Coexisting cardiovascular diseases increase the risk of exacerbations in patients with COPD  
L. C. M. Bertens, K. G. M. Moons, A. W. Hoes, F. H. Rutten (Utrecht, The Netherlands)
- P1016 Increased prevalence of elevated high-sensitivity cardiac troponin T among patients with stable chronic obstructive pulmonary disease  
A. M. C. Neukamm, H. Arne Didrik, S. Vidar, O. Torbjørn (Lørenskog, Norway)
- P1017 Predictors of high-sensitivity cardiac troponin T during acute exacerbation of chronic obstructive pulmonary disease  
A. D. Høiseth, A. Neukamm, T. A. Hagve, P. H. Brekke, T. Omland, V. Søyseth (Lørenskog, Norway)
- P1018 Fibrinogen and all-cause mortality in a nationally representative US cohort  
D. Valvi, H. Muellerova, R. Tal-Singer, D. Mannino (Lexington, Upper Merion, United States of America; London, United Kingdom)
- P1019 COPD prevalence in chronic heart failure  
A. Minasian, R. Dekhuijzen, F. Van den Elshout, P. Vos, F. Willems, P. Van den Bergh, Y. Heijdra (Arnhem, Nijmegen, Zevenaar, The Netherlands)
- P1020 Acute myocardial infarction is associated with increased number of bronchial macrophages in low risk patients  
V. Soyseth, F. Mahmood, A. D. Høiseth, A. Neukamm, P. Brekke, T. Waehre, T. Omland, J. Kongerud (Lørenskog, Oslo, Norway)
- P1021 High blood pressure, antihypertensive medication and lung function in a general adult population  
E. Becker, S. Karrasch, H. Schulz, S. Gläser, C. Meisinger, M. Heier, A. Peters, H. E. Wichmann, J. Behr, R. M. Huber, J. Heinrich (Neuherberg, Munich, Greifswald, Augsburg, Germany)
- P1022 Prevalence of pulmonary arterial hypertension and right ventricular dysfunction in COPD patients in the Kirov region of Russia  
J. Chuyasova, V. Pyankov, E. Poyarkova (Kirov, Russian Federation)
- P1023 Prevalence of comorbidities in patients with COPD in south-Spain  
A. Arnedillo, M. Merino, P. Cordero, I. Alfageme, J. L. López-Campos, B. Alcazar, F. Casas (Cádiz, Badajoz, Sevilla, Jaén, Granada, Spain)
- P1024 The evaluation of systemic inflammation in COPD patients comorbid with cardiovascular diseases or diabetes mellitus  
Y. Yumino, S. Fujii, N. Takasaka, J. Kojima, H. Hara, T. Numata, T. Ishikawa, M. Kawaishi, K. Saito, J. Araya, K. Nakayama, K. Kuwano (Tokyo, Japan)
- P1025 Use of a US population-based survey to describe the relationship of COPD and co-morbidities  
R. Pleasants, H. Herrick, W. Liao, J. Croft, J. Ohar (Durham, Raleigh, Atlanta, Winston Salem, United States of America)

## SUNDAY SEPTEMBER 25

- P1026 Prevalence of anemia of chronic disease in patients with chronic obstructive pulmonary disease  
A. Boutou, G. Pitsioui, I. Stanopoulos, T. Kontakiotis, G. Kyriazis, P. Touplikioti, N. Chavouzis, L. Sichelitidis, P. Argyropoulou (Thessaloniki, Greece)
- P1027 The association between asthma, atopic diseases and metabolic factors in a young population of southern Taiwan  
T. Y. Yuan, L. Y. Wang, T. H. Huang, R. L. Hsiao, T. N. Wang (Kaohsiung, New Taipei City, Taiwan)
- P1028 Epidemiology of allergic rhinitis in asthmatic patients in Greece  
A. Florou, S. Vakali, F. Vlasserou, C. Gratziou (Athens, Greece)
- P1029 Asthma and obesity: Epidemiological data in young adults  
A. Antunes Cetlin, M. Romeu Gutierrez, H. Bettiol, M. Antônio Barbieri, E. Oliveira Vianna (Ribeirão Preto, Brazil)
- P1030 Effects of psychiatric comorbidity on respiratory drugs and health care utilization  
S. Baldacci, S. Maio, G. Sarno, A. Angino, S. Cerrai, F. Martini, M. Fresta, F. Di Pedè, G. Viegi (Pisa, Palermo, Italy)

HALL 2-28

SESSION 105

12:50 - 14:40

## Thematic Poster Session: Air pollution

**Chairs:** G. Hoek (Utrecht, The Netherlands), J. Bonlokke (Hjortshøj, Denmark), P. Thorne (Iowa City, United States of America)

- P1031 Lung cancer risk of solid fuel smoke: A systematic review and meta-analysis  
O. Kurmi, P. Arya, H. Lam, J. Ayres (Birmingham, Nottingham, United Kingdom)
- P1032 Impact of air pollution control measures and weather conditions on asthma during the 2008 summer olympic games in Beijing  
W. Wang, Y. Li, K. Huang (Beijing, China)
- P1033 Indoor PM<sub>2.5</sub> levels in homes using different types of cooking fuels in a rural Indian population and its association with COPD  
U. Mukkannawar, S. Sambhudas, S. Juvekar, A. Ojha, S. Salvi (Pune, India)
- P1034 Effects of air pollution from biomass burning in nasal mucociliary clearance of Brazilian sugarcane cutters  
A. D. Ferreira, E. M. C. Ramos, G. N. B. Ferrari, R. F. Xavier, L. C. S. Carvalho Junior, A. C. Toledo, D. Ramos (Presidente Prudente, Brazil)
- P1035 The investigation of the relationship between respiratory exposures and the occurrence of the disease in patients with COPD  
S. Gunay, E. Gunay, O. S. Sonmez, N. Demirci, A. I. Keyf, C. Simsek (Igdir, Ankara, Turkey)
- P1036 Prenatal environmental tobacco smoke exposure and children's respiratory health  
L. Jelenina, O. Lavrova, M. Petrova (Saint-Petersburg, Russian Federation)
- P1037 Inhaled black carbon in the lower airways of London cyclists  
C. Nwokoro, N. Mushtaq, C. Harrison, M. Ibrahim, I. Dickson, O. Hussain, Z. Manzoor, C. Ewin, I. Dundas, J. Grigg (London, United Kingdom)
- P1038 Association between traffic-related air pollution exposure and risk of obstruction  
A. Badyda, P. Dabrowiecki, W. Lubinski (Warsaw, Poland)
- P1039 Effect of daily pollution exposure in the autonomic system in traffic workers of São Paulo  
D. Alveno, M. Saccomani, F. Mendes, P. Saldiva, C. Carvalho (São Paulo, Brazil)
- P1040 Non-malignant abnormalities by chest radiography and high-resolution computed tomography in millers and miners with different levels of asbestos exposure  
E. Bagatin, L. E. Nery, G. Meirelles, R. Rodrigues, L. M. Nápolis, J. A. Neder, M. Terra-Filho (Campinas, São Paulo, Brazil)
- P1041 Acute respiratory effects in atopic humans exposed to short-term controlled exposure to diluted wood smoke  
I. S. Riddervold, J. H. Bønløkke, A. C. Olin, V. Schlønssen, T. Sigsgaard (Aarhus, Denmark; Othenburg, Sweden)
- P1042 Biodiesel usage in Austria: Improving or deteriorating respiratory health?  
H. P. Hutter, M. Kundi, P. Wallner, B. Krüger, I. Schicker, H. Moshhammer (Vienna, Austria)
- P1043 Relation between fractional exhaled NO and lung function and exposure to ambient particulate matter from contrasting sources  
M. Strak, M. Steenhof, K. Godri, I. Gosens, F. Cassee, I. Mudway, F. Kelly, R. Harrison, E. Lebrecht, B. Brunekreef, G. Hoek, N. Janssen (Bilthoven, Utrecht, The Netherlands; London, Birmingham, United Kingdom)
- P1044 Short-term effect of ozone in a panel study of asthmatics  
B. Forsberg, P. Boman (Umeå, Sweden)
- P1045 The effects of whole life arsenic exposure via drinking water on airway hyperresponsiveness in C57BL/6 mice  
K. A. Ramsey, A. N. Larcombe, P. D. Sly, G. R. Zosky (Perth, Brisbane, Australia)
- P1046 Carbon content of airway macrophages and lung function in children within the London low emission zone (LEZ)  
T. Round, D. Gadhvi, I. Dundas, I. Dickson, N. Mushtaq, H. Wood, J. Grigg, C. Griffiths (London, United Kingdom)
- P1047 Copper nanoparticles generate reactive oxygen species (ROS) after air delivery to alveolar type-II cells *in vitro*  
P. S. Thorne, J. S. Kim, A. Adamcakova-Dodd (Iowa City, United States of America)
- P1048 Impact of urban air pollution on acute upper respiratory tract infections (AURTI)  
M. A. Arbex, S. L. Santiago, E. P. Moysés, L. A. Pereira, P. H. Saldiva, A. L. Braga (São Paulo, Santos, Brazil)

- P1049 Wood stoves and coal burning smoke exposure is associated with COPD development especially in women  
C. Kleisaris, M. Minas, A. Papaioannou, Z. Daniel, K. Gourgoulialis (Heraklion, Larisa, Larissa, Greece)
- P1050 Affective disorders among fishermen and women exposed to indoor air pollution  
V. Umoh, E. Peters, G. Erhabor, B. Edet, E. Ekpe, C. Adiukwu (Uyo, Ile-Ife, Calabar, Jos, Nigeria)

## HALL 2-29

## SESSION 106

12:50 - 14:40

**Thematic Poster Session: Mineral dusts****Chairs: V. Schluessen (Arhus, Denmark), S. Burge (Solihull, United Kingdom), X. Baur (Hamburg, Germany)**

- P1051 The frequency and factors for occurrence of asbestos-related diseases in the rural of Sivas localised on central Anatolia (cross sectional epidemiologic study)  
I. Döngel, M. Bayram, H. Yalcin, S. Gültürk, N. D. Bakan (Sivas, Istanbul, Turkey)
- P1052 The impact of residential proximity to ophiolitic units in the development of asbestos related diseases  
M. Bayram, I. Döngel, N. D. Bakan, H. Yalcin (Sivas, Istanbul, Turkey)
- P1053 CO-diffusion capacity in asbestos-exposed workers with or without abnormal chest X-ray findings  
A. M. Preisser, M. Velasco Garrido, E. S. Goldenstein, S. Gudrun, U. Manuwald, D. Wilken, X. Baur (Hamburg, Germany)
- P1054 Pleural plaques and lung function in asbestos-exposed workers free from pulmonary fibrosis  
B. Clin, C. Paris, J. Ameille, P. Brochard, M. Letourneux, E. Schorle, S. Chammings, F. Conso, A. Gislard, F. Laurent, A. Luc, J. C. Pairon (Caen, Nancy, Garches, Bordeaux, Lyon, Paris, Rouen, Creteil, France)
- P1055 Respiratory morbidity of children exposed to crocidolite at Wittenoom, Western Australia  
P. Franklin, A. Reid, L. Samuel, N. de Klerk, B. Musk (Perth, Australia)
- P1056 The sociodemographic and clinical characteristics of Turkish workers with pneumoconiosis  
H. Altinoz, C. Celikkalkan, F. Hamsioglu, N. Cengiz, H. Orbay (Istanbul, Turkey)
- P1057 Silicosis due to denim sandblasting; relationship among radiological findings, pulmonary function tests and biochemical parameters  
O. Deniz, S. Gumus, F. Ors, B. Battal, E. Ucar, B. Karaman, E. Cakir, E. Tozkoparan, H. Bilgic (Ankara, Turkey)
- P1058 Respiratory symptoms, lung function impairment, and sensitization to metals in construction workers exposed to ashes, cement and ash-cement mixtures  
D. Mijakoski, J. Karadzinska-Bislimovska, S. Stoleski, J. Minov, M. Marsenic, A. Atanasovska (Skopje, FYROM)
- P1059 Tobacco use in Sussex asbestos workers  
T. Medveczky, C. Turton (Brighton, United Kingdom)
- P1060 Airborne concentration of asbestos fibers in residences covered by asbestos-cement corrugated roofing sheets  
L. M. Napolis, M. Terra-Filho, E. Bagatin, J. A. Neder, P. K. Kiyohara, S. Kitamura, L. E. Nery (São Paulo, Campinas, Brazil)
- P1061 Cement dust exposure, respiratory symptoms and exhaled nitric oxide: A cross-sectional study  
A. Tungu, M. Bråtveit, B. Moen (Bergen, Norway)
- P1062 Does selection bias explain increases in pneumoconiosis observed in United States coal miners?  
E. Petsonk, E. Suarhana, A. Laney, A. Wolfe, J. Hale, N. Edwards, M. Attfield (Morgantown, Atlanta, United States of America)
- P1063 Epidemiologic and clinicopathologic analysis of malignant mesothelioma for last 10 years in Korea  
S. H. Jung, M. Eom, H. R. Kim, S. B. Koh, S. J. Yong, M. J. Chung, C. H. Lee, K. S. Suh, J. S. Song (Wonju, Seoul, Jeonju, Busan, Daejeon, Goyang, Republic of Korea)
- P1064 Pulmonary asbestos fiber in an urban population in Spain  
M. I. Velasco-García, M. J. Cruz, C. Diego, M. A. Montero, F. Morell, J. Ferrer (Barcelona, El Ferrol, Spain)
- P1065 Serum cytokine spectrum in workers with occupational salt dust exposure in underground conditions  
N. Denisevich, T. Rybina, E. Amelchenko (Soligorsk, Minsk, Republic of Belarus)
- P1066 Simple anthracosis: Benign cause of bronchial narrowing and obstruction; a CT study  
S. Kahkouee, M. Sadeghi, M. Bitarafan, E. Heydarian Fard (Tehran, Islamic Republic of Iran)
- P1067 Occupational and environmental determinants of exposure to asbestos in malignant mesothelioma cases  
S. Salehpour, S. A. Azin, A. Cheraghvandi, M. M. Heidari, S. Mir Mohammad Saadeghi (Tehran, Islamic Republic of Iran)
- P1068 Investigating of CEA, CA125, CA15-3, CA19-9, fT3, fT4, TSH, vitamin B12, folic acid and ferritin in malignant and benign diseases due to environmental asbestos exposure  
I. Döngel, M. Bayram, S. Sahin, I. Benli (Sivas, Tokat, Turkey)
- P1069 Intrapulmonary asbestos concentrations in shipyard workers exposed to asbestos in El Ferrol, Spain  
C. Diego, M. I. Velasco-García, M. J. Cruz, U. Calvo, R. de los Reyes, M. J. Mejuto, J. Moreno, J. Ferrer (Ferrol, Barcelona, Spain)

## SUNDAY SEPTEMBER 25

HALL 2-30

SESSION 107

12:50 - 14:40

**Thematic Poster Session: Smoking cessation science and smoking-related disorders****Chairs: C. Bolliger (Cape Town, South Africa), E. Dagli (Istanbul, Turkey), E. Puscinska (Warsaw, Poland)**

- P1070 Smoking cessation – What determines adherence to pharmacological treatment  
A. Castro, J. Valério, A. Correia, M. Guimarães, I. Pascoal (Vila Nova de Gaia, Portugal)
- P1071 Tobacco cessation quit line in Iran. Evidence based during one year. TobaccoCessation Quit Line in Iran. Evidence based during August 2009-2010  
S. Eslampabah Nobari, G. Heidari, Z. Hessami, M. R. Masjedi (Tehran, Islamic Republic of Iran)
- P1072 Therapeutic education sessions better than motivation session in dependant smokers none ready to quit  
B. Dautzenberg, M. Zaleski-Zamenhof, M. D. Dautzenberg, A. Delrieu, J. Osman (Paris, France)
- P1073 Factors affecting to quit smoking in an outpatient smoking cessation clinic  
B. Atay Yayla, A. I. Yildiz, G. Cosgun, E. Ugurlu, F. Evyapan (Denizli, Turkey)
- P1074 Effect of an electronic cigarette on smoking cessation and reduction: A prospective pilot study  
M. Caruso, R. Polosa, P. Caponnetto, J. Morjaria, G. Papale, D. Campagna, C. Russo (Acireale, Catania, Italy)
- P1075 Acupuncture versus combined acupuncture and nicotine substituting therapy for the treatment of nicotineism  
S. Angelova, D. Marinova (Sofia, Bulgaria)
- P1076 The impact of education to healthcare professionals (HCPs) on smoking cessation in changing patient referral patterns  
B. Vlies, A. Nazir, C. Walsh, S. Agarwal, D. Nazareth, P. Stockton (Prescot, United Kingdom)
- P1077 Lung age in smokers – To tell or not to tell?  
K. Miyamoto, M. Takase (Sapporo, Japan)
- P1078 The influence of anxiety on smoking behaviour in patients with chronic hepatitis  
I. Marincu, L. Negrutiu, S. Mihaicuta, I. Iacobiciu, N. Bertici, C. Ardelean, I. Todor, A. Neghina, C. Oancea, S. Frent, R. Neghina (Timisoara, Alba Iulia, Romania)
- P1079 Influence of smoking intensity and smoking quitting on lung function parameters in COPD patients  
I. Pavlenko, J. Ilkovich, N. Shklarevich (Saint-Petersburg, Russian Federation)
- P1080 Evaluation of the antismoking therapy within two specialized medical practice – Arges county  
R. Marmandiu, L. Marmandiu, C. Didilescu (Pitesti, Leordeni, Bucuresti, Romania)
- P1081 Behaviour of long-term weight following smoking cessation  
A. Scherr, M. Tamm, B. Seiffert, M. Kuster, A. Meyer, D. Stolz (Basel, Switzerland)
- P1082 Tobacco smoke is a major source of indoor air pollution in Hungary's hospitality venues  
A. D. Tarnoki, D. L. Tarnoki, M. J. Travers, A. Hyland, K. Dobson, L. Mechtler, I. Horvath, K. M. Cummings (Budapest, Hungary; Buffalo, United States of America)
- P1083 The tenth year preliminary results of smoking cessation policlinics of Karadeniz Technical University medicine faculty  
F. Oztuna, G. Çan, S. Ayik, T. Özlü, I. Yilmaz (Trabzon, Turkey)
- P1084 Smoking behavior of hospital staff  
Y. Vakefliu, J. Bushati, D. Prifti, B. Sokoli, J. Laçka, D. Argjiri, P. Kapisyzi (Tirana, Pogradec, Shkodra, Berat, Albania)
- P1085 Smoking habit – Still a problem in workplace  
G. Apti, H. Memis, A. M. Trailescu, C. Didilescu (Constanta, Bucuresti, Romania)
- P1086 Smoking influence on lung function characteristics of potash miners  
H. Baradzina, H. Hurevich, N. Denisevich (Minsk, Soligorsk, Republic of Belarus)
- P1087 Prevalence of symptoms of chronic bronchitis in Murmansk, Russia  
P. Nieminen, T. Toljamo, M. Borisenko, Y. Payusov, S. Lyalyushkin, A. Nyberg, V. Kinnula, D. Panychev (Oulu, Rovaniemi, Helsinki, Finland; Murmansk, Russian Federation)
- P1088 Smoking habit: Prevalence, attitudes and behaviour among medical students in Casablanca in 2010  
N. Zaghba, N. Yassine, L. Hayat, Z. Serheir, K. Elfadi, I. Rahibi, S. Hilali, A. Ech-Cherrat, F. Mounaji, A. Bakhatar, A. Bahlaoui (Casablanca, Morocco)
- P1089 Documentation & accuracy of smoking status – An educational need?  
J. Redfern, S. Patel, J. Plant, G. Ennals, H. Gittins, M. Schrober, A. Collins, D. Nazareth, L. Davies (Liverpool, United Kingdom)

HALL 2-31

SESSION 108

12:50 - 14:40

**Thematic Poster Session: Smoking rate: smoking cessation interventions****Chairs: M. Garcia (Malaga, Spain), S. Belo Ravara (Covilha, Portugal)**

- P1090 Results in a tobacco consulting room in 2008  
F. J. Callejas Gonzalez, S. Garcia Castillo, J. Cruz Ruiz, M. S. Plenc Ziegler, R. Godoy Mayoral, A. I. Tornero Molina, J. Jimenez Lopez, R. Sánchez Simon-Talero, A. Nunez Ares, F. Munoz Rino (Albacete, Spain)
- P1091 Special characteristics of smoking cessation program participants in a large municipal hospital in Greece  
G. Makrantonis, M. Kougas, E. Balis, K. Kotsifas, S. Bouliou, M. Kouvela, G. Tatsis (Athens, Greece)



- P1092 Factors associated with smoking cessation in a smoking cessation unit  
C. Almonacid Sanchez, I. Sanchez Hernandez, J. Gallardo Carrasco, J. P. Rodriguez Gallego, E. Guzman Robles, S. Quiros Fernandez, J. Fernandez Frances, J. Castela Naval, J. L. Izquierdo Alonso (Guadalajara, Spain)
- P1093 Research of smoking in health workers in Hospital Cacak-Serbia  
N. Lazovic, S. Majstorovic, J. Antonovic, I. Pesic, D. Suluburic (Cacak, Belgrade, Guca, Republic of Serbia)
- P1094 Abundance of smoking cessation reasons in participants of smoking cessation clinic  
Z. Hessami, M. Aryanpur, G. Heydari, M. Masjedi, S. Eslampanah (Tehran, Islamic Republic of Iran)
- P1095 Low-income is a predictive factor of failure associated with smoking cessation at a public clinic in Brazil  
R. F. Xavier, D. Ramos, G. N. B. Ferrari, J. T. Ito, F. M. M. Rodrigues, A. C. Toledo, E. M. C. Ramos (Presidente Prudente, Brazil)
- P1096 Knowledge about tobacco according to smoking habit and level of formal education  
P. Gregorio, B. Lemos, A. Moraes, F. Mattos, M. Sampaio, P. Viveiros, I. de Godoy (Botucatu, Brazil)
- P1097 Smoking prevalence and smoking behaviour among Portuguese physicians: A cross-sectional study  
S. Belo Ravara, M. Castelo Branco, J. M. Calheiros (Covilhã, Portugal)
- P1098 The achievements of the "Quit Smoking Kocaeli" campaign  
F. Yildiz, I. Basyigit, S. Argun Baris, H. Boyaci (Kocaeli, Turkey)
- P1099 Oxidative stress, obesity and chronic inflammation in smokers according to smoking duration and heaviness  
V. Startev, M. Jordanova, J. Petev (Varna, Bulgaria)
- P1100 Predictors of lung function improvement following smoking cessation  
D. Stolz, R. Finger, B. Seiffert, M. Kuster, A. Meyer, M. Tamm (Basel, Switzerland)
- P1101 Active smoking negatively affects recovery of patients hospitalized due to acute exacerbation of chronic obstructive pulmonary disease (COPD)  
A. Schäfer, N. Eszes, Z. Kováts, V. Müller (Budapest, Hungary)
- P1102 Exhaled carbon monoxide according to daily cigarette consumption in healthy smokers  
J. Zabatiero, D. Kovelis, M. Proença, K. Furlanetto, L. Mantoani, E. Ramos, F. Pitta (Londrina, Presidente Prudente, Brazil)
- P1103 Effects of paternal tobacco use on different parameters of a newborn child  
S. A. Arsalan, A. R. Bhagwani, I. A. Farhan, S. Kanwal, H. Hashmi, S. A. Abbas, S. A. Husain (Karachi, Pakistan; Kent, United Kingdom)
- P1104 Smoking cessation in tuberculosis and COPD patients  
N. V. Yavorava, H. L. Hurevich, A. A. Rimga, A. M. Skrahina, T. M. Krytskaya (Minsk, Republic of Belarus)
- P1105 Association between dopamine transporter, monoamine oxidases genotypes and tobacco smoking  
M. Smirnova, N. Mitushkina, O. Suhovskaya, E. Imyanitov (Saint-Petersburg, Russian Federation)
- P1106 Smoking induced satellite associations in a rural population of south India  
R. Pajaniyel, U. Natarajan (Puducherry, India)

HALL 2-32

SESSION 109

12:50 - 14:40

**Thematic Poster Session: New insights in paediatric respiratory physiology****Chairs: R. Kraemer (Bern, Switzerland), S. Lum (London, United Kingdom), G. Hall (Perth, Australia)**

- P1107 Single-breath lung diffusion capacity for carbon monoxide in children and young adults born extremely preterm  
E. Satrell, O. Røksund, E. Thorsen, T. Halvorsen (Bergen, Norway)
- P1108 Effect of prenatal exposure to tobacco on lung function of infants born preterm  
M. Sanchez-Solis, L. Garcia-Marcos, V. Perez, P. Mondejar, M. D. Pastor (Murcia, Spain)
- P1109 Acetazolamide for severe hyperventilation and apnea in a child with Pitt-Hopkins syndrome  
S. Verhulst, W. De Backer (Wilrijk, Belgium)
- P1110 Peripheral airway function versus spirometry in childhood asthma  
S. Kjellberg, P. Robinson, E. Viklund, M. Ström, P. Gustafsson (Skövde, Sweden; Sydney, Australia)
- P1111 Vocal cord dysfunction in adolescents  
J. Schulze, S. Weber, M. Rosewich, O. Eickmeier, M. Rose, S. Zielen (Frankfurt, Germany)
- P1112 Evolution of lung function in preterm infants with or without bronchopulmonary dysplasia  
M. Sanchez-Solis, L. Garcia-Marcos, V. Perez, M. D. Pastor, P. Mondejar (Murcia, Spain)
- P1113 Spirometric reference values for Italian children  
V. Fainardi, D. Vitale, E. Volta, M. Vanelli, G. Pisi (Parma, Italy)
- P1114 Infant lung function and subsequent respiratory morbidity during the first year of life in preterm infants  
E. Proietti, T. Riedel, O. Fuchs, I. Pramana, P. Latzin, U. Frey (Bern, Basel, Switzerland)
- P1115 Stress tolerance evaluation in obese children  
L. Fidalgo-Marron, M. J. Garcia-Mazarion, N. Lopez-Andres, I. Adrados-Razola, A. Lopez-Dueñas, E. Insfran-Marron (Guadalajara, Madrid, Spain)
- P1116 Respiratory impedance using forced oscillation technique in preschool children with a history of wheezing  
C. Calogero, N. Parri, G. Fenu, P. Sly, B. Cuomo, M. Palumbo, E. Lombardi (Florence, Viterbo, Italy; Brisbane, Australia)

## SUNDAY SEPTEMBER 25

- P1117 Detection of bronchodilator effect by spirometry in preschool asthmatic children  
D. Vilozni, G. Livnat, F. Hakim, L. Bentur (Haifa, Ramat-Gan, Israel)
- P1118 Where there's smoke there's fire! What is the function?  
P. Radford (Phoenix, United States of America)
- P1119 Longitudinal assessment of lung function in children and adolescents with sickle cell anaemia  
A. Lunt, G. F. Rafferty, D. Rees, S. Height, A. Greenough (London, United Kingdom)
- P1120 Pediatric pulmonary function testing in infants and toddlers with perinatal burden  
J. Sulc, V. Kredba, J. Zikan, P. Kotatko, J. Tukova, P. Pohunek, P. Kolar, D. Markova (Prague, Czech Republic)
- P1121 Validity of volumetric vest respiratory measurements in preterm infants with changes in posture  
S. Kent, C. Olden, H. Rabe, P. Seddon (Brighton, United Kingdom)
- P1122 Verification of the maximal oxygen consumption using a supra-maximal stress test on obese children  
L. Fidalgo-Marron, G. Galicia-Poblet, J. E. Garcia-Lozaiza, M. del Carmen Sanchez-Gonzalez, P. Alvarez-Estrada, E. Insfran-Marron (Guadalajara, Madrid, Spain)
- P1123 Prescription of physical exercise for obese children based on cardiopulmonary exercise tests  
L. Fidalgo-Marron, E. Insfran-Marron, E. Cid-Paris, A. Ortigado-Matamala, P. Sevilla-Ramos, J. M. Jimenez-Bustos (Guadalajara, Madrid, Spain)
- P1124 Effects of oral breathing and cervical postural alteration in respiratory mechanics and exercise capacity  
R. T. Okuro, A. M. Morcillo, M. A. G. O. Ribeiro, E. Sakano, C. I. S. Schivisnk, J. D. Ribeiro (Campinas, Florianópolis, Brazil)
- P1125 Pulmonary function in Thai children and adolescents with obesity  
W. Khrisanapant, U. Kukongviriyapan, O. Pasurivong, P. Sengmeuang (Khon Kaen, Thailand)
- P1126 Nasal NO measurement in preschool children: Feasibility and validation of a novel tidal breathing technique  
A. Jung, C. Geidel, I. Heinrichs, A. Moeller, G. Menz, R. Lauener (Davos, Zurich, Switzerland)

HALL 2-33

SESSION 110

12:50 - 14:40

## Thematic Poster Session: Risk and detection of childhood asthma and allergy

Chairs: D. Caudri (Rotterdam, The Netherlands), L. Fleming (London, United Kingdom)

- P1127 Late-breaking abstract: Asthma through childhood; do children remit from their disease?  
V. Hovland, A. Riiser, P. Mowinckel, K. H. Carlsen, K. C. Lødrup Carlsen (Oslo, Norway)
- P1128 Late-breaking abstract: Maternal genetic asthma predisposition affects pulmonary microRNA profiles in neonatal offspring  
S. Dehmel, A. Pastula, R. Imker, N. Schulz, O. Eickelberg, A. Roscher, S. Krauss-Etschmann (Muenchen, Germany)
- P1129 Revisiting the September asthma epidemic  
C. Capili, R. Jacobson, X. Li, Y. Juhn (Rochester, United States of America)
- P1130 Asthma symptoms in pediatric patients: Differences throughout the seasons  
E. Koster, J. Raaijmakers, S. Vijverberg, A. H. Maitland-van der Zee (Utrecht, The Netherlands)
- P1131 Air pollution and asthma hospitalizations in children  
A. Iskandar, Z. J. Andersen, K. Bønnelykke, K. Andersen, H. Bisgaard (Gentofte, Copenhagen Ø, Denmark)
- P1132 Comparison of prevalence of childhood asthma in two different African-American communities in Columbus area. A pilot study  
S. Sheikh, K. Morris, K. McCoy (Columbus, United States of America)
- P1133 Prevalence and risk factors of asthma in urban Canadian Aboriginal children  
M. Ye, A. Senthilselvan (Edmonton, Canada)
- P1134 Nocturnal dry cough in early childhood is a risk for the development of asthma  
I. Boudewijn, O. Savenije, M. Kerkhof, G. Koppelman, H. Smit, A. Wijga, D. Postma (Groningen, Utrecht, Bilthoven, The Netherlands)
- P1135 Recurrent wheeze in children with Down syndrome: Is it asthma?  
M. Weijerman, P. Brand, M. van Furth, C. Broers, R. Gemke (Leiderdorp, Zwolle, Amsterdam, The Netherlands)
- P1136 Early childhood infections with rotavirus and norovirus are associated with risk of developing asthma  
M. Mommers, M. Ogunyena, J. Penders, J. Reimerink, F. Stelma, M. Koopmans, C. Thijs (Maastricht, Bilthoven, Nijmegen, The Netherlands)
- P1137 Maternal asthma phenotypes and children's allergy status  
M. Vakharlovskaya, O. Lavrova, M. Petrova (Saint-Petersburg, Russian Federation)
- P1138 Maternal stress during pregnancy and childhood asthma: The KOALA birth cohort study  
I. Kummeling, M. Mommers, J. Penders, C. Bastiaenen, C. Thijs (Maastricht, The Netherlands; London, United Kingdom)
- P1139 Carboxyhemoglobin concentration in school-age children with persistent asthma  
J. Lalic, J. Lalic, M. Slavkovic-Jovanovic, M. Ljubenovic, V. Cosic (Nis, Republic of Serbia)
- P1140 Electronic auscultation of the lungs in children with asthma  
E. Stezhkina, T. Filimonova, G. Sharovskaya, A. Dmitriev (Riasan, Russian Federation)
- P1141 Component-resolved allergy diagnostics identify phenotypes in problematic severe childhood asthma  
B. Nordlund, J. Konradsen, I. Kull, M. Borres, A. Önell, H. Grönlund, G. Hedlin (Stockholm, Uppsala, Sweden)

- P1142 Iodine subsidy as a factor in prevention of bronchial asthma (BA) in infants  
E. Truntsova, D. Bezrukova (Astrakhan, Russian Federation)
- P1143 Vitamin D in Tunisian young asthmatics  
E. Tangour, H. Maalmi, J. Ammar, A. Berraies, H. Abid, K. Hamzaoui, S. Yaalaoui, A. Hamzaoui (Ariana, Tunis, Tunisia)
- P1144 Functional state of endothelium in bronchial asthma children  
N. Orlova, E. Atkina, L. Guryeva, L. Babenkova, G. Sakaeva, A. Biktasheva, S. Levasheva (Ufa, Russian Federation)
- P1145 Climatic impact on the level of exhaled NO in children with asthma  
R. Volkmer Staresina, D. Ratkovic, D. Buljevic, T. Mavric, M. Zvonarek (Crikvenica, Croatia)
- P1146 Association of IL4 gene polymorphisms with asthma phenotype  
M. Vakharlovskaya, M. Petrova, T. Ivashchenko (Saint-Petersburg, Russian Federation)

HALL 2-34

SESSION 111

12:50 - 14:40

**Thematic Poster Session: Paediatric respiratory infection: signs, symptoms and sequelae**

**Chairs:** J. E. Dankert-Roelse (Heerlen, The Netherlands), M. Vasilopoulou (Athens, Greece), F. Versteegh (Waddinxveen, The Netherlands), R. Nenna (Rome, Italy)

- P1147 Effects of respiratory viral infections on the lower respiratory tract of children, especially asthmatic children  
A. Fujitsuka, M. Arakawa, K. Sugai, M. Noda, H. Kimura (Yokohama, Utsunomiya, Musashimurayama, Japan)
- P1148 CARESS: The Canadian registry of palivizumab (2005-2010)  
I. Mitchell, B. Paes, A. Li, K. Lanctot (Calgary, Hamilton, Toronto, Canada)
- P1149 Increasing immunosuppression despite high load of respiratory viruses: Fludarabine as rescue treatment in alloreactive lung disease  
B. Rottier, M. Raphael, J. J. Boelens (Groningen, Utrecht, The Netherlands)
- P1150 Lung function of preschoolers with parapneumonic effusions complicating community acquired pneumonia  
V. Avramidou, E. Hatziagorou, F. Kirvassilis, C. Antachopoulos, J. Tsanakas (Thessaloniki, Greece)
- P1151 Recurrent respiratory tract infections in the preschoolers and IgG3 deficiency  
I. Vasilopoulou, A. Karatza, F. Paliogianni, M. Trigka (Patras, Greece)
- P1152 Abdominal pain as a predictor of pneumonia in children  
I. Kirovski, V. Micevska, L. Seckova, L. Nikolovski (Skopje, FYROM)
- P1153 Development a set of reagents for real-time PCR diagnostics and surveillance of infections caused by *B. pertussis*, *B. parapertussis* and *B. bronchiseptica*  
M. Praded, T. Selezneva, S. Yatsyshina (Moscow, Russian Federation)
- P1154 Diagnostic capabilities of the T SPOT TB in children with tuberculous bronhadenitis: University Clinic for Lung Diseases – Sofia, Bulgaria  
S. Velizarova (Sofia, Bulgaria)
- P1155 Connective tissue disorders as the factor that changes clinical course of community-acquired pneumonia in children  
Z. Nesterenko, O. Ivanina (Lugansk, Ukraine)
- P1156 Clinical management and outcome of childhood lung abscess (LA): A 15-year experience  
O. Katilov, D. Dmytriiev, O. Mazulov (Vinnitsa, Ukraine)
- P1157 Clinical characteristics of pediatric patients affected with H1N1/2009 pandemic influenza A virus who needed hospital admittance in the western region of Guatemala  
K. Escobar, A. Cuá, F. Moscoso, M. Mejía (Quetzaltenango, Guatemala)
- P1158 Outcome of H1N1 infection in hospitalised paediatric patients in a tertiary hospital  
A. Poovathor, H. Javad, Y. Al Rawahi, L. Al Yazdi, A. Balkhair (Muscat, Oman)
- P1159 Risk-factors of negative predictive value of cardiovascular system damage in children with recurrent respiratory tract diseases  
K. Barabadze, A. Tsabutashvili (Tbilisi, Georgia)
- P1160 Impact of cough on quality of sleep and effect of anti-tussive treatment in children: An observational study  
A. Zanasi, G. De Danieli, L. Lanata, R. Balsamo, S. Cazzato, F. De Blasio (Bologna, Milan, Naples, Italy)
- P1161 Primary ciliary aplasia as a cause of recurrent respiratory infections in an infertile young man  
M. Canciani, S. Bortolato, G. N. Canciani, M. De Santi (Udine, Siena, Italy; Norwich, United Kingdom)
- P1162 A neonate with respiratory distress and unilateral pulmonary hyperinflation  
A. Yousef, E. Sugo, B. Currie, P. Palasanthiran, A. Jaffe (Khobar, Saudi Arabia; Sydney, Australia)
- P1163 A girl with extensive dissemination of thoracic ecchinococcus  
I. Groothuis, C. P. van de Ven, A. W. P. M. Maat, G. Paleru, J. C. de Jongste (Rotterdam, The Netherlands; Boekarest, Romania)
- P1164 Chronic nonspecific diseases of lungs (CNDL) and iodine deficiency diseases in children  
T. Bobomuratov, G. Isakova, D. Akramova, A. Kuziev (Tashkent, Uzbekistan)
- P1165 Local cytokine production peculiarities in nasopharyngeal (adenoid) tissue of children with chronic lymph proliferative syndrome of different etiology  
E. Varyushina, M. Drozdova, E. Tyrnova, A. Simbirtsev (Saint-Petersburg, Russian Federation)

## SUNDAY SEPTEMBER 25

HALL 2-35

SESSION 112

12:50 - 14:40

**Thematic Poster Session: Paediatric epidemiology: bronchiolitis, pneumonia, asthma and spirometry in non-respiratory conditions****Chairs: J. Lucas (Southampton, United Kingdom), C. Almqvist Malmros (Stockholm, Sweden)**

- P1166 Geographical variation in the risk of childhood pneumonia and relationships to socio-economic and health deprivation  
M. Thomas, A. Blain, M. Shirley, C. Simmister, M. Elemraid, R. Gorton, M. Pearce, J. Clark, S. Rushton, D. Spencer (Newcastle-upon-Tyne, United Kingdom)
- P1167 Risk factors for recurrent wheezing following bronchiolitis: 3 yrs of follow-up  
G. Cangiano, A. Pierangeli, C. Scagnolari, E. Bonci, C. Moretti, P. Papoff, J. Rabasco, I. Caiazzo, M. Ferrara, S. Luciani, F. Midulla (Rome, Italy)
- P1168 Making a bronchiolitis pathway work: If at first you don't succeed...  
L. Thanikkel, G. Spentzou, R. Aniapravan, R. Ross Russell (Cambridge, United Kingdom)
- P1169 Respiratory syncytial virus (RSV) prophylaxis in special populations  
I. Mitchell, B. Paes, A. Li, K. Lanctot (Calgary, Hamilton, Toronto, Canada)
- P1170 Associations between bronchiolitis and respiratory outcomes at 18 years in the PIAF birth cohort  
D. Cox, D. Mullane, S. Turner, G. Zhang, C. Hayden, J. Goldblatt, L. Landau, P. Le Souef (Perth, Australia)
- P1171 The association of caesarean section delivery with asthma and atopy in children: Effect modification by family history of allergies  
O. Kolokotroni, N. Middleton, M. Gavatha, D. Lamnisis, K. Priftis, P. Yiallourous (Limassol, Nicosia, Cyprus; Athens, Greece)
- P1172 Physical activity and asthma symptoms in a population-based cohort  
C. S. Rueegg, M. P. F. Strippoli, C. S. Beardsmore, M. Silverman, C. E. Kuehni (Bern, Switzerland; Leicester, United Kingdom)
- P1173 Prevalence of asthma and allergies in the Greek (G/C) and Turkish (T/C) communities in Cyprus  
D. Lamnisis, O. Kolokotroni, H. Koksoy, N. Middleton, K. Arifoglou, M. Faiz, P. Yiallourous (Limassol, Nicosia, Cyprus)
- P1174 Assessment of primary care doctor's diagnosed bronchial asthma in schoolchildren  
O. D. Wolthers (Randers, Denmark)
- P1175 Evidence that children can assess their asthma medication devices  
K. Papataxiarchou, N. Grekas, K. Athanassiou, A. Kaditis, P. Panaghiotopoulou-Gartagani (Pikermi, Athens, Greece)
- P1176 Validation of history on atopy and childhood illness in a clinical birth cohort study  
N. H. Vissing, S. M. Jensen, H. Bisgaard (Gentofte, Denmark)
- P1177 Psychogenic cough: Clinical and laboratory characteristics  
V. Avramidou, E. Hatziaorou, F. Kirvassilis, D. Gidaros, J. Tsanakas (Thessaloniki, Greece)
- P1178 Tourette's syndrome manifest as chronic cough in children  
T. M. Wang, C. H. Su (Taichung, Taiwan)
- P1179 Prognostic importance of congenital stridor occurred during the 1st year of life in children of five years of age  
E. Striga, O. Zaytseva, Y. Soldatsky (Moscow, Russian Federation)
- P1180 Factors associated and attack rate in adenovirus infection among children with chronic respiratory disease  
C. Flores Berrios, M. Mendez, B. Chateau, C. Astudillo, H. Cerda, S. Flores (Santiago, Chile)
- P1181 Pulmonary function abnormalities in Egyptian sickle cell disease patients  
A. Abou Zeid, M. El Ghamrawy (Cairo, Egypt)
- P1182 Pulmonary function in children with inflammatory bowel disease do not differ from healthy population  
J. Peradzynska, K. Krenke, J. Lange, A. Banaszkiwicz, I. Lazowska (Warsaw, Poland)
- P1183 Age at diagnosis in children with primary ciliary dyskinesia (PCD) in Russian Federation (RF)  
L. Selimzyanova, E. Sereda (Moscow, Russian Federation)

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SESSION 113

12:50 - 14:40

**Thematic Poster Session: Lung function today and tomorrow I****Chairs: F. De Jongh (Enschede, The Netherlands), K. De Soomer (Antwerp, Belgium), E. Dijkers (Amsterdam, The Netherlands), M. Dunne (Dublin, Ireland)**

- P1184 Peripheral airway function in adults with sickle cell disease  
A. Chubb, A. Lunt, M. Dick, D. Rees, S. Height, S. L. Thein, G. F. Rafferty, A. Greemough (London, United Kingdom)
- P1185 Assessment of tracheobronchomalacia in relapsing polychondritis using impulse oscillometry  
H. Handa, H. Nishine, H. Kida, T. Inoue, M. Mineshita, N. Kurimoto, T. Miyazawa (Kawasaki, Japan)
- P1186 Diagnostics of loss in lung elastic recoil pressure using impulse oscillometry and body plethysmography  
L. Kiryukhina, M. Kameneva (Saint-Petersburg, Russian Federation)

- P1187 Direct airway resistance response after deep inspiration in symptomatic asthmatics  
K. van der Velden-van Etten, K. Nietzman-Lammering, H. C. Hoogsteden (Rotterdam, The Netherlands)
- P1188 Agreement of airway resistance measurements by two different techniques of body-plethysmography and impulse oscillometry in asthmatic patients  
A. Sharifi, K. Ansarin (Tabriz, Islamic Republic of Iran)
- P1189 sGaw as an alternative for FEV1 in the measurement of airway responsiveness to methacholine in patients experiencing chronic cough  
R. Boksem, M. Habes, R. van Steenwijk (Amsterdam, The Netherlands)
- P1190 Specificity and sensitivity of forced oscillation measurement during methacholine challenge testing used for diagnosis of asthma  
Z. Jun, P. Na, H. Kewu, T. Souren (Beijing, China; Hoechberg, Germany)
- P1191 Non-invasive measurement of respiratory impedance in conscious guinea pigs utilising impulse oscillometry  
C. C. Klein, J. Thomas, N. Mieskes, M. Hoffmann, H. J. Smith (Bad Langensalza, Berlin, Germany)
- P1192 Appropriateness of ATS/ERS recommended lung volume reference values for contemporary Australasian children  
M. Verheggen, K. Logie, C. O'Dea, B. Dixon, M. Swanney, G. Hall (Perth, Randwick, Australia; Christchurch, New Zealand)
- P1193 Spacer device selection may not impact bronchodilator responsiveness (BDR) in asthmatic children  
J. Langley, C. Shackleton, S. Devadason, G. Hall (Perth, Australia)
- P1194 Feasibility and reproducibility of pulmonary function tests in preschoolers  
D. França, J. Martins, F. Athayde, M. Abreu, G. Araujo, P. Camargos, R. Britto, V. Parreira (Belo Horizonte, Sete Lagoas, Brazil)
- P1195 Feasibility of spirometry-controlled chest magnetic resonance imaging (MRI) in children  
S. Lever, P. Ciet, E. van der Wiel, P. Wielopolski, H. Tiddens (Rotterdam, The Netherlands)
- P1196 Early lung function testing in infants with aortic arch anomalies identifies infants at risk for airway obstruction  
C. Roehr, H. Proquitté, B. Opgen-Rhein, C. Buehrer, G. Schmalisch (Berlin, Germany)
- P1197 Forced expiratory tracheal noise time in diagnostics of hidden bronchial obstruction among spirometry negative asthma patients  
I. Pochekutova, V. Malaeva, V. Korenbaum (Vladivostok, Russian Federation)
- P1198 Dynamic hyperinflation in patients with severe COPD  
K. Klooster, D. J. Slebos (Groningen, The Netherlands)
- P1199 Impedance pneumography for assessment of a tidal breathing parameter in patients with airway obstruction  
V. P. Seppä, T. Kööbi, M. Kähönen, J. Hyttinen, J. Viik (Tampere, Finland)
- P1200 Sound propagation estimation in vivo by self-mixing interferometer  
I. Milesi, P. Pompilio, N. Michele, R. Dellacà (Milano, Italy)
- P1201 Detection of pregnancy in horses by breath analysis using differential ion mobility spectrometry (DMS)  
C. C. Klein, G. Becher, R. Purkhart, W. Steinhäusser, M. Hoffmann (Bad Langensalza, Bernau, Geyer, Kirchheim, Germany)
- P1202 Non-invasive method for investigation of inhaled carbon monoxide (CO) distribution between intra- and extravascular compartments  
E. Babarskov, E. Stepanov, Y. Shulagin, A. Cherniak, Z. Aisanov, A. Chuchalin (Moscow, Russian Federation)

HALL 2-37

SESSION 114

12:50 - 14:40

**Thematic Poster Session: Lung function today and tomorrow II**

**Chairs:** S. Blonshine (Mason, United States of America), A. Houtkooper (Den Helder, The Netherlands), E. Oostveen (Antwerp, Belgium), M. Horstman (Pijnacker, The Netherlands)

- P1203 Static lung volumes in lung transplant recipients with bronchiolitis obliterans syndrome  
T. Small, C. Ward, J. Lordan, A. Fisher, P. Corris, J. Gibson (Newcastle upon Tyne, United Kingdom)
- P1204 Postoperative predicting value of lung function in patients with lung cancer – Fortune-telling or reality? Evaluation after surgical treatment  
M. Franczuk, J. Usiekniewicz, P. M. Rudzinski, S. Wesolowski, T. M. Orłowski (Warsaw, Poland)
- P1205 Maximal inspiratory pressures, lung volumes and flows in young rowers  
J. Kivastik, M. Arend, R. Rämson, J. Mäestu (Tartu, Estonia)
- P1206 Asthma diagnosis by the reversibility test of respiratory muscles power in asthmatics using the respiratory pressure meter  
O. Elbadri, M. E. Ali, A. Magzoub, O. Musa (Atbara, Khartoum, Sudan)
- P1207 Predicted spirometric values for Romanian adults – A preliminary study  
L. Lihatchi, D. Ionita (Bucharest, Romania)
- P1208 E-patient reported outcomes: Can you have reliance on compliance?  
A. Harrison, G. Sowman, H. KaurNagra, R. Woodward (Wallingford, Maids Moreton, United Kingdom)
- P1209 Comparison of referral patterns between a respiratory laboratory in the Republic of Ireland and Western Australia  
E. Salamon, M. Stack, K. Gain (Perth, Australia; Cork, Ireland)

## SUNDAY SEPTEMBER 25

- P1210 How to diagnose restrictive ventilatory defect by spirometry, and reduce the number of lung volumes measurements?  
S. Wesolowski, P. Boros (Warsaw, Poland)
- P1211 Non invasive assessment of pulmonary shunt in adults with liver disease  
G. Spentzou, S. Sanka, M. Rutter, N. Fung, R. Ross Russell (Cambridge, United Kingdom)
- P1212 Is obstructive lung disease correlated to age and smoking habit or is there more?  
S. Lone, R. Boksem, R. Van Steenwijk (Amsterdam, The Netherlands)
- P1213 The correlation between lung function parameters, and level of activity in seropositive rheumatoid arthritis  
G. Aпти, A. Trailescu (Constanta, Bucharest, Romania)
- P1214 Assessment of the suitability of filters for use in clinical studies with an HFA fluticasone propionate pressurized metered dose inhaler (pMDI) and a valved holding chamber (VHC)  
K. Nikander, L. Slator, D. von Hollen, R. Hatley (Parsippany, United States of America; Chichester, United Kingdom)
- P1215 Feasibility and agreement in inspiratory capacity measured by spirometry and body plethysmography  
C. Vargas, J. C. Vazquez, L. Torre (Mexico City, Mexico)
- P1216 Can NO diffusion predict desaturation during maximal exercise?  
E. Oppersma, W. J. C. van Beurden, M. Brusse-Keizer, P. D. L. P. M. van der Valk, F. H. C. de Jongh (Enschede, The Netherlands)
- P1217 DL<sub>no</sub>; Slave to a rhythm?  
A. Houtkoper, P. J. A. M. van Ooij, R. A. van Hulst (Den Helder, The Netherlands)
- P1218 Intra- and intersession variability of the single-breath determination of carbon monoxide diffusing capacity  
K. De Soomer, H. Vaerenberg, W. De Backer, E. Oostveen (Antwerp, Belgium)
- P1219 Comparison of two commercially available portable gas transfer devices  
L. Paddison, M. Jones, B. Cooper (Birmingham, United Kingdom)
- P1220 How long does it take for supine gas transfer to become stable after sitting upright?  
L. O'Reilly, H. Ward, B. Cooper (Birmingham, United Kingdom)
- P1221 Effect of sample volume size on single-breath transfer factor for the lung  
E. Herring, N. Clayton (Manchester, United Kingdom)

HALL 2-38

SESSION 115

12:50 - 14:40

**Thematic Poster Session: Exercise tests and emerging outcomes: defining the impact of pulmonary rehabilitation**

**Chairs: F. Franssen (Horn, The Netherlands), R. Evans (Toronto, Canada), C. Bolton (Nottingham, United Kingdom)**

- P1222 Effect of COPD severity on hemodynamic responses to exercise in patients with GOLD stages I-IV  
M. Vasilopoulou, I. Vogiatzis, I. Nasis, S. Spetsioti, E. Cherouveim, G. Kaltsakas, E. Kortianou, M. Koskolou, A. Koutsoukou, M. Alchanatis, N. G. Koulouris (Athens, Lamia, Greece)
- P1223 Electrocardiographic and echocardiographic abnormalities in COPD patients according to disease severity  
L. Caram, C. Naves, S. Zanati, S. Tanni, L. Coelho, R. Ferrari, I. Godoy (São Paulo, Brazil)
- P1224 Effects of pulmonary rehabilitation (PR) on arterial stiffness in patients with COPD: The CIROCO study  
L. Vanfleteren, M. Spruit, F. Franssen, M. Boorsma, J. Op't Roodt, M. Groenen, E. Wouters (Maastricht, Horn, The Netherlands; Charnwood, United Kingdom)
- P1225 Reduced six-minute walking distance is associated with endothelial dysfunction in COPD patients  
C. Minet, I. Vivodtzev, R. Tamisier, F. Arbib, B. Wuyam, J. F. Timsit, D. Monneret, J. C. Borel, J. P. Baguet, P. Levy, J. L. Pepin (Grenoble Cedex 09, La Tronche, France)
- P1226 Reproducibility of a time trial cycle ergometer test protocol in comparison to a constant work rate test protocol in patients with COPD  
W. Gosens, J. Oomen, A. van 't Hul, M. Hesselink, L. Borghouts (Tilburg, Maastricht, Breda, Amsterdam, The Netherlands)
- P1227 Estimation of peak work load based on 6-min walk distance and general demographics in patients with COPD: A new regression equation  
M. J. H. Sillen, J. H. Vercoulen, A. J. van Het Hul, P. H. C. Klijn, E. F. M. Wouters, D. van Ranst, J. B. Peters, A. R. J. van Keimpema, F. M. E. Franssen, H. Otten, J. Molema, J. J. Jansen, M. A. Spruit (Horn, Nijmegen, Breda, Hilversum, Maastricht, The Netherlands)
- P1228 Inhibitory effect of SABA on exercise dynamic lung hyperinflation during 6-min walk test in stable COPD patients  
M. Satake, T. Shioya, H. Takahashi, K. Sugawara, C. Kasai, N. Kiyokawa, T. Watanabe, S. Fujii, A. Kawagoshi, M. Homma (Akita, Japan)
- P1229 Energy economy of walking with a wheeled ambulatory aid (rollator) in patients with chronic obstructive pulmonary disease (COPD)  
K. Hill, T. E. Dolmage, L. Woon, D. Brooks, R. S. Goldstein (Bentley, Australia; Toronto, Canada)
- P1230 Characterization of balance impairments in individuals with COPD  
M. Beauchamp, K. Sibley, B. Lakhani, J. Romano, S. Mathur, R. Goldstein, D. Brooks (Toronto, Canada)

- P1231 Comparison of maximal exercise capacity between patients with COPD from Brazil and United Kingdom  
R. B. de Mesquita, C. Sandland, N. A. Hernandez, V. S. Probst, S. Singh, F. Pitta (Londrina, Brazil; Leicester, United Kingdom)
- P1232 The effect of pulmonary rehabilitation on the sit-to-stand test in COPD  
M. Patel, J. Canavan, A. Clark, K. Ingram, R. Fowler, M. Polkey, W. Man (Harefield, United Kingdom)
- P1233 Age of loss of walking ability in patients with Duchenne muscular dystrophy: A marker for the elective use of mechanical ventilation?  
L. A. Tavares, M. T. Fonseca, L. B. Lasmar, R. C. Barbosa, T. B. Guimarães (Belo Horizonte, Brazil)
- P1234 In which male patients with COPD participated in a pulmonary rehabilitation program should be evaluated for osteoporosis?  
D. Kaymaz, P. Ergün, G. Kayalar, F. Sengül, N. Demir (Ankara, Turkey)
- P1235 The effectiveness of pulmonary rehabilitation in COPD outpatients with comorbidities  
N. Mendil, P. Ergün, D. Kaymaz, S. Aktas, E. Utku (Ankara, Turkey)
- P1236 Comorbidities in COPD patients are not associated to higher disease severity  
L. Caram, R. Ferrari, C. Naves, S. Tanni, L. Coelho, S. do Vale, I. Godoy (Distrito de Rubiao Júnior, Brazil)

HALL 2-39

SESSION 116

12:50 - 14:40

**Thematic Poster Session: Exacerbations and severe chronic respiratory disease: oxygen, rehabilitation, admission to hospital and palliative care**

**Chairs: M. Steiner (Leicester, United Kingdom), W. Man (Harefield, United Kingdom), A. Holland (Melbourne, Australia)**

- P1237 Late-breaking abstract: Effects of mucus clearance on the differences of rheological property, driving pressure and frequency during high frequency chest wall oscillation (HFCWO)  
T. Miyagawa, T. Ichiba, M. Takahashi, R. Hansen (Yokohama, Hachioji, Shinagawa, Japan; New Prague, United States of America)
- P1238 Assessment of nocturnal hypoventilation in patients with chronic respiratory failure: Role of transcutaneous PCO<sub>2</sub> monitoring. An observational study  
D. Nguyen-Baranoff, C. Rabec, M. Georges, A. Vagner, N. Kabeya, P. Camus (Dijon, France)
- P1239 Evaluation of home oxygen provision in east London: A study of appropriateness of ordering; and patient understanding and compliance  
R. Johns, M. Rodriguera, K. Renno, S. Lloyd-Owen (London, United Kingdom)
- P1240 A highly complex home care service for COPD in LTOT may reduce the exacerbations and the hospitalizations  
L. Di Re, A. Orsini, G. Ariano, G. Boccia, P. Mimotti, A. Scalera, A. Zaccagna, D. De Sanctis, P. Marzano (Teramo, Atri, Giulianova, Italy)
- P1241 End of life in COPD: There may be no surprises!  
G. South, O. Reddington, L. Hatfield, A. Phillips, H. Wall (Rotherham, Leicester, United Kingdom)
- P1242 Are COPD patients referred to palliative care?  
M. A. Pittman, B. Yung, J. Samuel, D. Mukherjee (Basildon, United Kingdom)
- P1243 Readmission predictors in patients with chronic obstructive pulmonary disease hospitalized for an exacerbation  
N. Yoshida, T. Yoshiyama, S. Kojima, M. Aoki, S. Kudo (Kiyose-shi, Japan)
- P1244 A time-limited, six month program of community-based disease management, support and education following hospital admission for AECOPD: Outcomes from a pilot study  
M. Stern, H. Broomfield, A. Williamson, C. Potter, C. Yeramesu (London, United Kingdom)
- P1245 Evaluation of contribution of high frequency chest wall oscillation treatment to medical treatment in patients with acute exacerbations of COPD  
T. Goktalay, S. Akdemir, A. Coskun, A. Alpaydin, P. Celik, A. Yorgancioglu (Manisa, Turkey)
- P1246 Hospital at home for patients with acute exacerbations of chronic obstructive pulmonary disease; will it be an effective home care model?  
D. Kaymaz, P. Ergün, E. Günay, S. Aktas, N. Mendil, S. Battal, E. Utku, P. Demir (Ankara, Turkey)
- P1247 Hand grip strength in patients engaged in pulmonary rehabilitation program during COPD exacerbation  
O. Ozyemisci-Taskiran, Z. Erden, N. Kokturk, G. Kaymak Karatas (Ankara, Turkey)
- P1248 Effects of case management on hospitalisation and exacerbation rate in severe, complex COPD: A randomized controlled trial  
L. Boer, T. Schermer, A. Koopman, J. Peters, Y. Heijdra, J. Vercoulen, E. van der Heijden (Nijmegen, The Netherlands)
- P1249 The current situation and the perspective of respiratory care in Japanese COPD patients revealed by Japanese White Paper on home respiratory care 2010 – COPD subgroup analysis  
J. Ueki, M. Mishima, K. Tatsumi, K. Takahashi, H. Ishihara, H. Kurosawa, K. Fujimoto, M. Koyama, K. Toyama (Urayasu, Kyoto, Tokyo, Japan)
- P1250 The “susceptibility to exacerbation” phenotype in COPD and response to pulmonary rehabilitation  
J. L. Canavan, K. A. Ingram, R. P. Fowler, P. Marns, K. Dobson, A. L. Clark, C. M. Nolan, M. I. Polkey, W. D. C. Man (London, United Kingdom)

## SUNDAY SEPTEMBER 25

- P1251 Promoting excellence in COAD care – Through a community multidisciplinary team approach  
D. Liu, K.M Lo, Y.H Leung, H.M Ma, H.S Chan, S. S. Ho (Hong Kong, Hong Kong)
- P1252 Breathlessness and social cognition: The effect of social comparison on perceived breathlessness in asthma and COPD  
S. Petersen, O. Van den Bergh (Leuven, Belgium)
- P1253 Participants perspectives of living with COPD: The role of different groups of health professionals  
A. Hardy, A. Coe (Halifax, Castleford, United Kingdom)
- P1254 The impact of depression in recovery and outcome of patients hospitalized for COPD exacerbation  
A. Papaioannou, K. Bartziokas, S. Tsikrika, F. Karakontaki, E. Kastanakis, A. Haniotou, V. Poluchronopoulos, K. Kostikas (Athens, Greece)

HALL 2-40

SESSION 117

12:50 - 14:40

**Thematic Poster Session: Rehabilitation, outcome measures and effects****Chairs: C. Burtin (Leuven, Belgium), S. Bernard (Quebec, Canada), R. Garrod (London, United Kingdom)**

- P1255 Lower limb fatigue, during walking in patients with COPD  
P. Gagnon, V. Coats, L. Bouyer, C. Brouillard, F. Maltais, D. Saey (Quebec, Canada)
- P1256 Upper and lower limbs muscle in patients with COPD: Similar muscle efficiency but differences in resistance to fatigue  
E. Foschini Miranda, C. Malaguti, P. Marchetti, S. Dal Corso (São Paulo, Brazil)
- P1257 How should we measure arm exercise capacity in COPD? A systematic review  
T. Janaudis-Ferreira, M. K. Beauchamp, R. S. Goldstein, D. Brooks (Toronto, Canada)
- P1258 Work of walking in cystic fibrosis  
Z. Aribas, S. Savci, I. Yatar, M. Saglam, H. Arikan, D. Inal-Ince, N. Vardar-Yagli, M. Bosnak-Guclu, E. Yalcin (Ankara, Izmir, Turkey)
- P1259 Six minute walk test in obese children and adolescents  
M. Simoes Ferreira, R. Teixeira Mendes, M. A. G. de O Ribeiro, J. D. Ribeiro (Campinas, Brazil)
- P1260 An adaptation of Chester step test for use in patients with COPD  
S. Dal Corso, C. H. Silva de Andrade, A. Alves de Camargo, C. Malaguti (São Paulo, Brazil)
- P1261 Stepping determines greater oxygen desaturation than cycling in patients with COPD  
S. Dal Corso, C. Malaguti, A. Alves de Camargo, A. Jose, L. E. Nery (São Paulo, Brazil)
- P1262 Quality of life and functional capacity in heart failure patients  
I. Nogueira, I. Azevedo, P. Nogueira, D. Servantes, F. da Costa, J. Filho (Natal, São Paulo, Brazil)
- P1263 The minimal important difference of the pulmonary functional status and dyspnea questionnaire – Modified version in patients with COPD  
E. Regueiro, C. Burtin, D. Langer, H. Van Remoortel, P. Baten, V. Pires Di Lorenzo, D. Costa, W. Janssens, M. Decramer, ERS President 2011, R. Gosselink, T. Troosters (São Carlos, São Paulo, Brazil; Leuven, Belgium)
- P1264 The modified version of the pulmonary functional status and dyspnea questionnaire: A valid measure to evaluate functional status in patients with COPD  
C. Burtin, D. Langer, H. Van Remoortel, R. Gosselink, W. Janssens, M. Decramer, ERS President 2011, T. Troosters (Leuven, Belgium)
- P1265 Anxiety and depression in patients referred for pulmonary rehabilitation  
K. Ingram, J. Canavan, R. Fowler, P. Marns, A. Clark, C. Nolan, M. Polkey, W. Man (Harefield, United Kingdom)
- P1266 Breathlessness is associated with lower completion rates of pulmonary rehabilitation classes  
V. Lord, M. Thomas, J. Steier, N. Hopkinson (London, United Kingdom)
- P1267 Feasibility and effectiveness of an educational program in COPD (COPD-EP)  
M. Paneroni, E. Clini, E. Crisafulli, E. Guffanti, A. Fumagalli, A. Bernasconi, A. Cabiaglia, A. Nicolini, S. Brogi, N. Ambrosino, R. Peroni, L. Bianchi, M. Vitacca (Lumezzane, Gaiato, Casatenovo, Varese, Sestri Levante, Pisa, Italy)
- P1268 Larger improvements in endurance capacity in fat-free mass depleted COPD patients by non-linear resistance training  
P. Klijn, T. van Keimpema, H. van Stel, R. Gosselink (Hilversum, Amsterdam, Utrecht, The Netherlands; Leuven, Belgium)
- P1269 Pulmonary rehabilitation: Investigating the characteristics and use of a warm-up  
E. Heywood, G. Phillips (Leeds, United Kingdom)
- P1270 The effect of pulmonary rehabilitation programme in patients with pulmonary sarcoidosis  
J. Zatloukal, K. Neumannova, V. Kolek (Olomouc, Czech Republic)
- P1271 The effect of an 8-week outpatient rehabilitation programme on chest expansion and ventilatory parameters in patients with COPD  
K. Neumannova, J. Zatloukal, V. Kolek (Olomouc, Czech Republic)
- P1272 The effects of an 8 week pilot community pulmonary rehabilitation programme on exercise tolerance and quality of life  
C. Baily, M. Spencer, N. Murphy, P. Barron (Dublin, Ireland)
- P1273 Pulmonary rehabilitation: Are the effects similar in populations from different countries?  
C. A. Camillo, C. Burtin, D. Langer, V. Cavalheri, N. A. Hernandez, E. M. Cipulo Ramos, V. Probst, F. Pitta, R. Gosselink, T. Troosters (Londrina, Presidente Prudente, Brazil; Leuven, Belgium)



**Thematic Poster Session: Respiratory physiotherapy in the intensive care unit and on the ward: breathing exercises and respiratory muscles****Chairs: V. Parreira (Belo Horizonte, Brazil), P. Joud (Lyon, France), E. Hulzebos (Utrecht, The Netherlands)**

- P1274 The inter-observer agreement of handheld dynamometry in critically ill patients  
J. Segers, G. Vanpee, P. Wouters, H. Vanmechelen, G. Van den Berghe, G. Hermans, R. Gosselink (Leuven, Belgium)
- P1275 Effects noninvasive mechanical ventilation on muscle strength, ambulation, and functional performance in the intensive care  
S. Cakartas, D. Inal Ince, S. Savci, H. Arikani, A. Topeli Iskit (Ankara, Izmir, Turkey)
- P1276 Registry and conformity of endotracheal tube tip distance from carina at a large tertiary hospital  
L. T. Y. da Silveira, A. C. Lopes, R. M. Di Gregorio, C. Fu (São Paulo, Brazil)
- P1277 The use of an oxygen concentration 50% above baseline before and after endotracheal suctioning prevents hypoxemia in stable patients  
B. Pessoa, G. Diniz, P. Figueiredo (Betim, Brazil)
- P1278 Non-invasive ventilation (NIV) as an aid to exercise in patients admitted with acute exacerbation of chronic respiratory disease  
F. Dyer, F. Bazari, C. Jolley, L. Flude, V. Lord, M. Polkey, N. Hopkinson (London, United Kingdom)
- P1279 Is there a need for training when using an oscillatory positive expiratory pressure device?  
T. Coppens, G. Reyckler, J. Roeseler, P. Delguste, G. Liistro (Brussels, Belgium)
- P1280 Validation of a time-frequency wheeze detector in cystic fibrosis: A pilot study  
D. Oliveira, C. Pinho, A. Marques, J. Dinis (Aveiro, Portugal)
- P1281 Randomized clinical trial: Effects of controlled breathing exercises on respiratory muscle in the elderly  
M. A. Cebrià i Iranzo, D. A. Arnall, J. M. Tomás Miguel, C. Igual Camacho, J. C. Meléndez Moral, J. R. Webb (Valencia, Spain; Johnson City, United States of America)
- P1282 Laryngeal movements during mechanical insufflation-exsufflation  
T. Andersen, A. Sandnes, O. Fondenes, T. Halvorsen, J. H. Heimdal, M. Hilland, T. Karlsen, T. A. Ellingsen, O. Røksund (Bergen, Norway)
- P1283 Alteration in heart rate variability in response to respiratory pressure loads and pursed lips breathing in healthy subjects  
I. G. Azevedo, F. H. F. Macedo, V. Resqueti, F. A. Lavezzo Dias, G. A. de Freitas Fregonezi (Natal, Brazil)
- P1284 Use of breath stacking technique as a strategy for redistribution of regional chest wall volume in obese women  
J. Barcelar, T. L. Melo, C. Dornelas, D. Brandão, C. Reinaux, G. Fregonezi, S. Bruno, A. Aliverti, A. Dornelas (Recife, Natal, Brazil; Milan, Italy)
- P1285 Evaluation of respiratory muscular force (RMF) and quality of life (QL) in patients with pulmonary arterial hypertension (PAH) before and after pharmacologic treatment  
N. Serrao, A. Piccinin, T. Queluz, H. Yoo (Botucatu, Brazil)
- P1286 Respiratory muscle strength in individuals with obesity before and after gastric bypass surgery: A 3 year follow-up study  
F. Athayde, K. Moraes, C. Matos, B. Mariana, R. Britto, V. Parreira (Belo Horizonte, Brazil)
- P1287 Effect of hyperoxygenation on measurement of the maximum inspiratory pressure (MIP) in critical patients  
I. Araújo, V. Vieira, M. Valois, C. Albuquerque, F. Ferrari (Recife, Brazil)
- P1288 Effects of expiratory positive airway pressure on the electromyographic activity of accessory inspiratory muscles in chronic obstructive pulmonary disease patients  
D. Cardoso, R. Jost, A. Paixão, I. Albuquerque, D. Paiva (Porto Alegre, Santa Cruz do Sul, Brazil)
- P1289 Effects of preoperative inspiratory muscle training (IMT) in obese women undergoing open bariatric surgery: Diaphragmatic excursion  
M. Barbalho-Moulim, D. Costa, G. Miguel, F. Campos, E. M. Forti (São Carlos, Cariacica, Brazil)
- P1290 Effects of preoperative inspiratory muscle training (IMT) in obese women undergoing open bariatric surgery: Respiratory muscle strength  
M. Barbalho-Moulim, D. Costa, G. Miguel, F. Campos, E. M. Forti (São Carlos, Cariacica, Brazil)
- P1291 Inspiratory muscle strength and endurance in patients with COPD: A propose outcome with manovacuometry and PowerBreathe®  
R. Basso, E. Regueiro, V. Pires Di Lorenzo, M. Jamami, D. Costa (Sao Carlos, São Paulo, Brazil)
- P1292 Respiratory muscle function during and after a severe exacerbation of COPD – Preliminary results  
R. B. de Mesquita, I. C. H. Genz, L. de Castro, N. A. Hernandez, V. S. Probst, F. Pitta (Londrina, Brazil)
- P1293 Maximal sniff nasal inspiratory pressure in Brazilian healthy subjects: A multicentre study  
G. A. F. Fregonezi, P. R. S. Araujo, A. D. F. Dornelas de Andrade, M. Moreno, E. Silva, J. F. Nascimento, Jr., L. de Andrade Carvalho, A. G. L. Cavalcanti, V. C. Silva, V. Resqueti (Natal, Recife, Piracicaba, Brazil)

## SUNDAY SEPTEMBER 25

HALL 2-42

SESSION 119

12:50 - 14:40

**Thematic Poster Session: Asthma: issues in rehabilitation and physical therapy****Chairs: V. Probst (Londrina, Brazil), V. Carrieri-Kohlmann (San Francisco, United States of America)**

- P1294 Late-breaking abstract: Determination of the endurance capacity on resistance exercise – Physiological responses during load-duration relationship  
V. Arakelian, N. Frade de Sousa, V. Borges, C. Gomes Gatto, M. Campos, D. Bertucci, V. Baldissera, A. Borghi-Silva (São Carlos, Brazil)
- P1295 Late-breaking abstract: Evaluation and comparison of functional capacity to incremental shuttle walk test and maximal exercising test on treadmill in obese women  
S. P. Jurgensen, L. Di Thommazo-Luporini, R. Trimer, A. F. Martinez, J. C. Bonjorno-Junior, C. R. Oliveira, A. M. Catai, V. Z. Dourado, A. Borghi-Silva (Sao Carlos, Santos, Brazil)
- P1296 Level of agreement between five asthma control questionnaires  
F. Vermeulen, I. Muyllé, I. De Meulder, M. Bruyneel, V. Ninane (Brussels, Belgium)
- P1297 Factors associated with asthma control in patients with stable asthma  
E. Grammatopoulou, A. Haniotou, A. Evangelodimou, N. Tsamis, P. Myrianthefs, G. Baltopoulos (Athens, Greece)
- P1298 Physical, social, and psychological function in asthma patients with and without analgesic tolerance  
D. Inal-Ince, S. Savci, N. Vardar-Yagli, E. Calik, M. Saglam, H. Arikan, M. Bosnak-Guclu, G. Karakaya, F. Kalyoncu (Ankara, Izmir, Turkey)
- P1299 Study of heart rate autonomic modulation in patients with asthma disease  
V. Francisco Souza, I. Peres, A. Borghi Silva, P. Bosio, R. Stirbulov, V. L. Alves Santos, L. V. Franco de Oliveira, D. Costa, L. Maria Malosá Sampaio (São Paulo, Sao Carlos, Ribeirao Preto, Brazil)
- P1300 The health-related quality of life of asthmatic patients according to the illness severity  
J. M. De S Pinto, A. M. M. Nogueiras, J. R. González, J. I. C. Arenillas (Salamanca, Spain; Fortaleza, Brazil)
- P1301 Evaluation of lung function and deposition in the nebulization carried by heliox associated with positive end expiratory pressure in stable asthmatics: Clinical trial  
T. Melo, L. Alcoforado, C. Rattes, V. M. Lima, D. Brandão, G. Ferreira, S. Brandão, A. F. D. Andrade (Recife, Brazil)
- P1302 Effects of nebulization with heliox coupled with positive end-expiratory pressure on the regional chest wall volume variations: A clinical trial  
L. Andrade, L. Alcoforado, C. Rattes, D. Brandão, C. Reinaux, V. Lima, L. Feitosa, J. Barcelar, A. Aliverti, A. Dornelas de Andrade (Recife, Brazil; Milano, Italy)
- P1303 Respiratory movements, chest mobility and sensitivity to pain in patients with sensory hyper reactivity (SHR) asthma and COPD  
E. L. Johansson, E. Ternesten-Hasséus, M. Fagevik-Olsén, E. Millqvist (Gothenburg, Sweden)
- P1304 Neurophysiological and functional assessment in patients with difficult asthma control  
F. Canuto, J. Corrêa, L. Sampaio, R. Stirbulov (São Paulo, Brazil)
- P1305 Comprehensive spa treatment in the Czech Republic  
K. Neumannova, J. Zatloukal, V. Kolek (Olomouc, Czech Republic)
- P1306 State of the respiratory physiotherapy in Spain: Map from online survey results  
D. Martí, A. Balañá, E. Gimeno, G. Muñoz, J. Vilaró (Barcelona, Girona, Spain)
- P1307 OSCE as an evaluation method for graduate students in respiratory therapy  
C. C. B. Marques da Silva, A. C. Lunardi, F. A. R. Mendes, F. Ferreira, C. R. F. Carvalho (São Paulo, Brazil)
- P1308 Management of dysfunctional breathlessness (DYB) – A retrospective service evaluation  
A. Dwarakanath, V. Davidson, C. Taylor, A. Fennerty (Harrogate, United Kingdom)
- P1309 Clinical outcomes of spinal cord stimulation (SCS) to restore cough  
A. DiMarco, K. Kowalski, R. Geertman, D. Hromyak, F. Frost, G. Nemunaitis (Cleveland, United States of America)
- P1310 Muscle strength and thoracic mobility in the spinal cord injuries: Influence of lesion level and physical exercise  
A. R. Zamunér, E. da Silva, R. M. L. de Barros, J. V. Paris, M. A. Moreno (Piracicaba, São Carlos, Campinas, Brazil)
- P1311 Influence of the loss of weight after bariatric surgery in the respiratory muscle endurance  
C. Barreto, V. Resqueti, V. Fernandes de Souza, G. A. F. Fregonezi, S. S. Bruno (Natal, Brazil)
- P1312 Airway clearance techniques (ACT): A retrospective study in 188 patients, 96 of which with respiratory failure (RF)  
F. D'Abrosca, B. Garabelli, L. Appendini, G. Savio, A. Barison, N. Buschini, P. Baiardi, B. Balbi (Veruno, Pavia, Italy)
- P1313 Change in erythrocyte aggregation during phototherapy in patients with COPD  
Y. Kayumova, N. Mukhiddinova (Tashkent, Uzbekistan)

HALL 2-43

SESSION 120

12:50 - 14:40

**Thematic Poster Session: The eclectic world of respiratory nursing****Chairs: D. Field (London, United Kingdom), S. Hrafnkelsdottir (Hafnarfjörður, Iceland)**

- P1314 Can education and electronic prescription improve the use oxygen in acute clinical settings?  
G. Ebbon, A. Thomas, S. Bikmalla, A. Ali, V. Punamiya, B. Beauchamp, R. Mukherjee (Birmingham, United Kingdom)

- P1315 Manage growing demand: Respiratory nurse clinic keeps people with COPD healthy  
S. W. S. Ng, W. Y. Tsang, C. L. H. Poon, L. V. Chan, C. M. Chu (Hong Kong, China)
- P1316 Practical nursing strategies in the management of pneumostoma patients  
L. Holsworth, T. Miller, B. Levvey, J. Gooi, S. Marasco, D. Keating, T. Williams, G. Westall, G. Snell (Melbourne, Australia)
- P1317 Daily weanscreen in mechanically ventilated patients; effects on sedation, analgesics and duration  
J. van Rosmalen, F. van Beers, A. van Hees, P. Vos, P. van Berkomp, J. A. H. van Oers (Tilburg, The Netherlands)
- P1318 Home non-invasive ventilation service for patients with chronic respiratory failure  
S. W. S. Ng, W. Y. Tsang, Y. Y. A. Chan, L. V. Chan, C. M. Chu (Hong Kong, China)
- P1319 Concept of caring – Family caregiver's perspective on end-of-life care in advanced COPD  
B. Korn (Dublin, Ireland)
- P1320 Clinical effectiveness of manual hyperinflation on atelectasis in patients with acute respiratory failure  
L. H. Yang, S. H. Maa (Taoyuan, Taitung, Taiwan)
- P1321 Persistent symptoms of hospitalized COPD patients in the palliative phase  
C. M. van Ommeren, W. J. C. van Beurden (Enschede, The Netherlands)
- P1322 A survey of nursing staff on intercostal drain (ICD) care in a tertiary centre  
R. Naseer, R. Ahmed, A. Scott, M. E. J. Callister (Leeds, United Kingdom)
- P1323 Comorbidity and medication use by gender differences in lung cancer  
Y. J. Chen, T. Forth, G. Narsavage (Morgantown, United States of America)
- P1324 Evaluation of health quality of patients with asthma and chronic obstructive pulmonary disease  
K. Kieczka, A. Doboszynska (Warsaw, Poland)
- P1325 Nurse care for patients with chest drainage and creation of local procedural standards  
R. Sabova, Z. Taligova, J. Plutinsky, D. Magula, D. Petras (Nitra, Slovakia)
- P1326 Obesity hypoventilation syndrome in the health area of the public company hospital Costa del Sol: Why do women have a higher prevalence?  
J. A. Piña Fernández, A. Mochón Doña, J. J. Santos Gonzalez, M. Sánchez Jimenez, P. Fuentes Gala, J. J. Cebrián Gallardo, L. Fernández de Rota, F. Linde de Luna, A. Padilla Galo, A. Escribano Dueñas, P. Cuellar (Marbella, Spain)
- P1327 Comparison of assessment methods with chest X-ray for postthoracotomy atelectasis  
P. Kordestani Moghadam, F. Mohammadipoor (Khorramabad, Islamic Republic of Iran)
- P1328 From theory to complex intervention. High fidelity simulation to advance nurses' experience with non-invasive ventilation  
D. Soerensen, K. Frederiksen, G. Thorbojorn, K. Lomborg (Aarhus, Randers, Denmark)
- P1329 A phenomenological study of pain in patients suffering from COPD  
M. Hustavenes, E. Austegaard, D. Nåden, R. Andenæs (Oslo, Norway)
- P1330 Caring for a family member with COPD: Exploring carers' needs  
R. Gabriel, C. Jácome, D. Figueiredo, A. Marques (Aveiro, Porto, Portugal)
- P1331 Living with COPD: A perspective on patients' concerns  
C. Jácome, R. Gabriel, A. Marques, D. Figueiredo (Aveiro, Portugal)

## ROOM 7.2

## SESSION 121

13:00 - 14:15

**Lunchtime session: Lancet / ERS symposium - New frontiers in COPD**

**Aims:** The session will provide a cutting-edge overview of controversies in treatment of and drug development for COPD and bring the audience up-to-date with new basic science and immunological research into this disease.

**Target audience:** Clinicians, researchers and allied health professionals.

**Chairs:** C. Jenkins (Sydney, Australia), M. Decramer, ERS President 2011 (Leuven, Belgium)

- 13:00 Current controversies in the treatment of COPD  
K. F. Rabe (Großhansdorf, Germany) 1332
- 13:25 New insights into the immunology of COPD  
G. Brusselle (Ghent, Belgium) 1333
- 13:50 The future of COPD treatment: what are the difficulties in and barriers to drug development for COPD  
F. J. Martinez (Ann Arbor, United States of America) 1334

## ELICIUM 2

## SESSION 122

13:00 - 14:15

**Lunchtime session: The European Respiratory Review 2010 updates: what's hot in pulmonary medicine?**

**Aims:** The aims of this symposium are to:

- provide clear summaries of recent developments and future needs in three major topics in respiratory medicine;
- provide better appreciation of the European Respiratory Review and its content, and how it complements the other publications produced by the ERS.

**Target audience:** Clinicians, nurses and scientists.

**SUNDAY SEPTEMBER 25****Chairs: M. Humbert (Clamart, France), V. Cottin (Lyon, France)**

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|-------|---|------|
| 13:00 | A critical review of contemporary pulmonary hypertension registries<br>R. Souza (São Paulo, Brazil) | 1335 |
| 13:25 | Are interstitial lung diseases still orphan diseases?<br>S. Harari (Milan, Italy)                   | 1336 |
| 13:50 | COPD: more treatments but no cure?<br>N. Roche (Paris, France)                                      | 1337 |

**ROOM 4.1****SESSION 123****13:00 - 14:30****Lunchtime Session: Optimising healthcare for COPD across Europe****Aims:** To show:

- how auditing can be developed across Europe to help better understand healthcare systems;
- demonstrate what the value of clinical auditing can be;
- provide an understanding of the current quality of care of COPD across Europe;
- identify the areas of COPD care that require greatest improvement;
- better understand the organisational models of COPD care currently used across Europe;
- appreciate the link between organisation of COPD care and clinical process measures and outcomes;
- provide an opportunity to network with colleagues across Europe to establish a forum for the exchange of ideas about service organisation and the delivery of COPD care in hospitals.

**Target audience:** Clinicians, allied respiratory professionals, health care managers and clinical audit professionals.**Chairs: G. Joos (Ghent, Belgium), F. Blasi (Milan, Italy)**

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|-------|---|------|
| 13:00 | European COPD Audit: how care is organised across Europe, methodological lessons learned - from a single country to a European study<br>M. Roberts (London, United Kingdom) | 1338 |
| 13:22 | Results from a European study: influence of healthcare organisation on outcomes<br>J.L. López-Campos (Seville, Spain)   | 1339 |
| 13:44 | WHO/Europe action plan on non-communicable diseases<br>H. Kluge (Copenhagen, Denmark)   | 1340 |
| 14:06 | The future of European audits. What's next?<br>S. Hartl (Vienna, Austria)   | 1341 |

**EMERALD****SESSION 124****13:00 - 14:15****Lunchtime Session: BMJ/ERJ Symposium – Peer reviewing****Aims:** The aims of this symposium are to:

- review how peer review works for the ERJ and BMJ;
- identify the key issues that make good reviews and good reviewers;
- learn best practice by critically discussing real cases from experts;
- discuss the challenges and opportunities surrounding the new journal technologies.

**Target audience:** Respiratory clinicians, primary care, technicians and allied professionals, as well as all residents and students who read and write for the ERJ and other medical journals such as the BMJ.**Chairs: J. Soriano (Bunyola, Spain), J. Wedzicha (London, United Kingdom)**

- |       |   |      |
|-------|---|------|
| 13:00 | ERJ peer reviewers: how are you doing? Review of numbers and performance<br>A. T. Dinh-Xuan (Paris, France) | 1342 |
| 13:25 | How ERJ peer reviewers should perform their review: golden rules<br>G. Sotgiu (Sassari, Italy)              | 1343 |
| 13:50 | Reviewing recent research on peer review: myths and reality<br>W. Weber (London, United Kingdom)            | 1344 |

**ERS SCIENTIFIC ASSEMBLY MEMBERS' MEETINGS****13:00 - 14:15****Open to ERS members and interested participants**

- |               |  |
|---------------|--|
| Room D203-204 | 02 Respiratory Intensive Care                  |
| Room E104-106 | 04 Clinical Physiology and Integrative Biology |
| Room G106-107 | 08 Thoracic Surgery and Transplantation        |
| Room E102     | 10 Respiratory Infections                      |
| Room D201-202 | 11 Thoracic Oncology                           |

**ROOM G102-103****SESSION 126****13:00 - 14:00****Meet the Professor: Mild COPD - What's all the fuss?**

- |      |                                  |
|------|----------------------------------|
| 1345 | D. Marciniuk (Saskatoon, Canada) |
|------|----------------------------------|

ROOM	SESSION	TIME
ROOM G104-105	SESSION 127	13:00 - 14:00
<b>Meet the Professor: Management of severe asthma</b>		
1346	G. Canonica (Genoa, Italy)	
ROOM E103	SESSION 132	13:00 - 14:00
<b>Meet the Professor: Rehabilitation as part of lung cancer management?</b>		
1347	M. A. Spruit (Horn, The Netherlands)	
ROOM G109	SESSION 133	13:00 - 14:00
<b>Meet the Professor: Lung ultrasound in critically ill patients</b>		
1348	J. Rouby (Paris, France)	
ROOM G110	SESSION 134	13:00 - 14:00
<b>Meet the Professor: How to select OSA patients for upper airway interventions</b>		
1349	W. De Backer (Antwerp, Belgium)	
ROOM G111	SESSION 135	13:00 - 14:00
<b>Meet the Professor: Primary ciliary dyskinesia: current state-of-the-art</b>		
1350	C. O Callaghan (Leicester, United Kingdom)	
ROOM 3.1	SESSION 138	13:15 - 14:30
<b>Practical Workshop: Self-adapted solutions in complex sleep-disordered breathing</b>		
<i>Organised by Weinmann Geräte für Medizin GmbH + Co. KG</i>		
<b>Chair: W. Randerath (Solingen, Germany)</b>		
13:15	Introduction	
	W. Randerath (Solingen, Germany)	1355
13:17	Complex and complicated sleep disordered-breathing - current data	
	W. Randerath (Solingen, Germany)	1356
13:32	Technical solutions for complex and complicated sleep-disordered breathing	
	M. Schwaibold (Karlsruhe, Germany)	1357
13:45	Hands-on	
14:30	Close	
ROOM 3.2	SESSION 139	13:15 - 14:30
<b>Practical Workshop: Are we supplying sufficient ventilation during sleep?</b>		
<i>Organised by ResMed Europe</i>		
<b>Target audience:</b> Physicians with a special interest in sleep and ventilation.		
13:15	Introduction	
	J-L. Pépin (Grenoble, France)	1360
13:17	Hypoventilation during sleep	
	J-L. Pépin (Grenoble, France)	1361
13:30	How to overcome hypoventilation during sleep using i-Vaps	
	M. Dreher (Freiburg, Germany)	1362
13:45	Practical demonstration and training	
14:30	Close	
ROOM E107	SESSION 140	13:15 - 14:30
<b>Practical Workshop: Advanced features of home mechanical ventilation</b>		
<i>Organised by GE Healthcare</i>		
13:15	Welcome	
	B. Bolander (Molnlycke, Sweden)	1365
13:20	Easy exhale as a benefit for the COPD patient: practical experiences	
	R. Soundaravelou (Marseille, France)	1366
13:30	Graphic monitoring and network capabilities	
	K.H. Thomas (Neustadt, Germany)	1367
13:40	Hands-on with computerised patient simulation	
	J. Geiseler (Gauting, Germany)	1368

## SUNDAY SEPTEMBER 25

ROOMS F002+F003

SESSION 141

13:15 - 14:30

**Practical Workshop: Monitoring patients using ventilation***Organised by Philips Respironics*

**Aims:** The aim of this session is to provide basic knowledge about monitoring patients using ventilation during the adaptation of their therapy in the hospital and domiciliary use. This includes a case study demonstrating this process in a ventilated patient and a product demonstration.

**Target audience:** Anybody who has an interest in the application and long term monitoring of domiciliary ventilation. e.g. respiratory technologists/scientists, respiratory nurses, respiratory physician, pulmonologists, and others.

**Chair:** J-P. Janssens (Geneva, Switzerland)

13:15	Introduction	
	J-P. Janssens (Geneva, Switzerland)	1369
13:17	Monitoring patients using ventilation: from adaptation to home follow-up	
	J-P. Janssens (Geneva, Switzerland)	1370
13:31	Monitoring of a patient using ventilation: a case study	
	C. Rabec (Dijon, France)	1371
13:45	Practical demonstration and training	
14:30	Close	

CLINICAL

ROOM 7.1

SESSION 145

14:45 - 16:45

**Interventional Pneumology Grand Round - an interactive session**

**Aims:** Based on the presented cases, the medical decisions will be discussed and compared with the available evidence.

**Target audience:** Clinicians, pulmonologists, surgeons, residents and fellows.

**Chairs:** A. Sundset (Oslo, Norway), J. Flandes (Madrid, Spain)

14:45	An 85-year-old man with dyspnoea, cough and complete left lung collapse	
	M. Wahidi (Durham, United States of America)	1374
15:15	A 53-year-old patient with fever and left-sided chest pain	
	I. Firlinger (Vienna, Austria)	1375
15:45	A 83-year-old male with increasing dyspnoea on exertion and abnormal trachea	
	A. Ernst (Boston, United States of America)	1376
16:15	A 62-year-old man with dyspnoea	
	J. Kappes (Heidelberg, Germany)	1377

PAEDIATRIC/BASIC

AUDITORIUM

SESSION 146

14:45 - 16:45

**Symposium: New promising ways to treat cystic fibrosis**

**Aims:** The aims of this symposium are to:

- increase the knowledge of the basic defect in cystic fibrosis (CF) and the clinical consequences;
- inform about the therapies well under way that may circumvent the basic defect and hopefully improve outcome without increasing the use of broad-spectrum antibiotics.

**Target audience:** Clinicians, paediatric and adult pulmonologists, researchers, physiotherapists and nurses.

**Chairs:** D. Bilton (London, United Kingdom), H. Tiddens (Rotterdam, The Netherlands)

14:45	New targets for CF therapies: hyperosmolar agents	
	I. Sermet-Gaudelus (Paris, France)	1378
15:15	Correctors and potentiators: to treat patients with individual mutations	
	E. Kerem (Jerusalem, Israel)	1379
15:45	Denufosol, a P2Y2 agonist that activates alternative chloride channels	
	F. Ratjen (Toronto, Canada)	1380
16:15	Neutrophil elastase inhibitor in CF: can it be done and will it help?	
	S. Elborn (Belfast, United Kingdom)	1381

INTENSIVE CARE

ROOM 7.2

SESSION 147

14:45 - 16:45

**Symposium: Acute breathlessness: the state of the science**

**Aims:** At the end of the session, participants will be able to define and describe dyspnoea crisis, identify key aspects related to dyspnoea crisis, and discuss the current evidence and gaps in the state of the science. Participants will have the opportunity to engage in discussion with panellists on protocols that may be applied to their practices.

**Target audience:** Nurses working in hospices, emergency departments, intensive care units and palliative care, allied health care professionals, physician scientists, physician clinicians, palliative care specialists and primary care physicians.

**Chairs:** E. Austegard (Oslo, Norway), G. Burge (Birmingham, United Kingdom)

14:45	State of the science on communication and coordination of care for dyspnoea crisis	
	L. Reinke (Seattle, United States of America)	1382

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|-------|--|------|
| 15:15 | Dyspnoea causal mechanisms and treatment options<br>M. Thomas (Gloucester, United Kingdom)   | 1383 |
| 15:45 | Novel approaches to delivery of services for patients experiencing dyspnoea crisis and their caregivers<br>R. Ryan (Cambridge, United Kingdom) | 1384 |
| 16:15 | Evidence base summary on the state of the science for dyspnoea crisis<br>V. Carrieri-Kohlman (San Francisco, United States of America)         | 1385 |

## INFECTION

## ELICIUM 2

## SESSION 148

14:45 - 16:45

**Symposium: TBNET: tuberculosis research in Europe**

**Aims:** At the end of the symposium, attendees will be familiar with recent advances in tuberculosis research in Europe.

**Target audience:** Clinicians, clinical scientists, immunologists, microbiologists, specialist nurses and public health specialists involved in tuberculosis control, surveillance, care and research.

**Chairs:** D. Goletti (Rome, Italy), G. Bothamley (London, United Kingdom)

- |       |  |      |
|-------|--|------|
| 14:45 | The role of interferon-gamma release assays for the diagnosis of tuberculosis<br>C. Lange (Borstel, Germany)         | 1386 |
| 15:15 | Immunodiagnosis of latent tuberculosis infection in immunocompromised hosts<br>M. Sester (Homburg, Germany)          | 1387 |
| 15:45 | Clinical management of patients with multidrug-resistant tuberculosis in Europe<br>G. B. Migliori (Tradate, Italy)   | 1388 |
| 16:15 | The risk of tuberculosis related to tumour necrosis factor antagonist therapies<br>I. Solovic (Vysne Hagy, Slovakia) | 1389 |

## ROOM 5.1

## SESSION 149

14:45 - 16:45

**Symposium: Knowing COPD by heart: a relationship beyond comorbidity**

**Aims:** The aims of this symposium are to:

- raise awareness about a high prevalence of cardiovascular disease (CVD) in patients with COPD;
- explain the underlying mechanisms for an increased cardiovascular risk in COPD;
- discuss potential therapeutic implications of CVD in COPD.

**Target audience:** Chest physicians, physicians in training, researchers and cardiologists.

**Chairs:** O. C. Burghuber (Vienna, Austria), L. M. Fabbri (Modena, Italy)

- |       |   |      |
|-------|---|------|
| 14:45 | Cardiovascular disease is a systemic manifestation of COPD: an introductory overview<br>A. Valipour (Vienna, Austria) | 1390 |
| 15:15 | Elastin loss and systemic vascular dysfunction in the lung and vasculature<br>W. MacNee (Edinburgh, United Kingdom)   | 1391 |
| 15:45 | Sympathetic activation in COPD as a link to cardiovascular disease<br>S. Andreas (Immenhausen, Germany)               | 1392 |
| 16:15 | The impact of cardiovascular drugs in COPD<br>A. Anzueto (San Antonio, United States of America)                      | 1393 |

## BASIC/CLINICAL

## ROOM 4.1

## SESSION 150

14:45 - 16:45

**Symposium: Accelerated lung ageing in COPD**

**Aims:** The aims of this symposium are to provide:

- an understanding of the normal ageing process in lungs;
- the evidence for accelerated ageing in emphysema/COPD;
- molecular mechanisms of ageing;
- potential therapeutic targets for COPD therapy.

**Target audience:** Clinicians, researchers and the pharmaceutical industry.

**Chairs:** A. Agusti (Barcelona, Spain), M. Ichinose (Wakayama, Japan)

- |       |   |      |
|-------|---|------|
| 14:45 | Modelling the ageing lung function<br>J. Soriano (Bunyola, Spain)             | 1394 |
| 15:15 | Telomere shortening and cell senescence in COPD<br>S. Adnot (Creteil, France) | 1395 |
| 15:45 | Molecular pathways of ageing<br>K. Ito (London, United Kingdom)               | 1396 |
| 16:15 | Therapeutic implications<br>P. J. Barnes (London, United Kingdom)             | 1397 |

SUNDAY  
25

## SUNDAY SEPTEMBER 25

## ELICIUM 1

## SESSION 151

14:45 - 16:45

## Oral Presentation: Mechanisms of allergic inflammation of the airways

Chairs: U. Raap (Hannover, Germany), S. Bonini (Roma, Italy)

14:45	LSC 2011 Abstract: Different biochemical properties of house dust mite induce divergent epithelial and inflammatory responses S. Post, M. C. Nawijn, A. J. M. van Oosterhout, I. Heijink (Groningen, The Netherlands)	1398
15:00	LSC 2011 Abstract: The influence of glucocorticoid therapy on transcription factor balance in asthma patients F. Dumitru, R. Bumbacea, S. Durham, C. Schmidt- Weber (London, United Kingdom; Bucharest, Romania; Munich, Germany)	1399
15:15	PGD <sub>2</sub> biosynthesis in several human mast cell models is catalyzed by cyclooxygenase-1 J. H. Choi, S. E. Dahlén, G. Nilsson (Stockholm, Sweden)	1400
15:30	Alpha-melanocyte stimulating hormone potentially inhibits basophil activation, indicating a novel function of this neuropeptide in airway allergy U. Raap, M. Gehring, T. Luger, A. Kapp, M. Böhm (Hannover, Muenster, Germany)	1401
15:45	Local and systemic inflammatory responses following bronchial instillation of house dust mite allergen (HDM) and HDM/lipopolysaccharide (LPS) in mild asthmatics M. Berger, J. D. de Boer, P. Bresser, T. van der Poll, R. Lutter, P. J. Sterk, J. S. van der Zee (Amsterdam, The Netherlands)	1402
16:00	Poly(I:C)-induced responses in nasal and bronchial epithelial cells of patients with asthma and healthy controls A. H. Wagener, S. Luiten, L. N. Venekamp, P. W. Kunst, P. J. Sterk, C. M. van Drunen (Amsterdam, The Netherlands)	1403
16:15	Alveolar mast cell expression of FcεRI differs between allergic asthma and rhinitis C. Andersson, E. Tufvesson, D. Aronsson, A. Bergqvist, M. Mori, L. Bjermer, J. Erjefält (Lund, Sweden)	1404
16:30	Nlrp3/caspase-1-independent IL-1β production mediates diesel exhaust particles-induced pulmonary inflammation S. Provoost, K. Tournoy, N. Pauwels, T. Vanden Berghe, P. Vandenabeele, B. Lambrecht, G. Joos, T. Maes (Ghent, Belgium)	1405

## FORUM

## SESSION 152

14:45 - 16:45

## Oral Presentation: Dilemmas and progress in understanding childhood asthma

Chairs: J. C. De Jongste (Rotterdam, The Netherlands), S. Pedersen (Kolding, Denmark)

14:45	Late-breaking abstract: MAGNETIC; a randomised, double blind, placebo controlled study of nebulised magnesium sulphate in acute asthma in children C. Powell (Cardiff, United Kingdom)	1406
15:00	More airway smooth muscle in preschool children increases risk of future asthma R. O'Reilly, T. Oates, J. Zhu, P. Jeffery, A. Bush, S. Saglani (London, United Kingdom)	1407
15:15	Remodelling in the bronchial mucosa in very young children with high risk for developing asthma K. Urbanova, P. Pohunek, J. Uhlik (Prague, Czech Republic)	1408
15:30	Airway inflammation, lung function and wheezing phenotypes in preschool children K. D. G. van de Kant, M. Jansen, E. M. M. Klaassen, C. P. van der Grinten, G. T. Rijkers, J. W. M. Muris, O. C. P. van Schayck, Q. Jobsis, E. Dompeling (Maastricht, Utrecht, Nieuwegein, The Netherlands)	1409
15:45	Airway inflammation is a continuous trait in children regardless of asthma symptoms A. M. M. Schoos, B. L. K. Chawes, K. Bønnelykke, H. Bisgaard (Gentofte, Denmark)	1410
16:00	Randomized placebo-controlled study of ciclesonide in preschool children with recurrent wheeze and a positive asthma predictive index or atopy P. Brand, K. Jagannath, M. L. Garcia Garcia, A. Morrison, J. Vermeulen, H. Weber (Zwolle, The Netherlands; Chennai, India; Leganés, Madrid, Spain; Cape Town, South Africa)	1411
16:15	Oposite effect of endotoxin exposure with different MD-2 genotypes on asthma in children B. Kljaic Bukvic, M. Blekic, N. Aberle, S. Marinho, A. Simpson, A. Custovic (Slavonski Brod, Croatia; Manchester, United Kingdom)	1412
16:30	Lessons learned from the epidemiology and natural history of asthma: Outcomes and treatment regimens (TENOR) B. Chipps, A. Yegin, L. Borish, S. Wenzel, S. Weiss, M. Hayden, D. Miller, E. Bleecker, E. Simons, S. Szefer, R. Zeiger, T. Haselkorn (Sacramento, San Francisco, Charlottesville, Pittsburgh, Boston, Winston-Salem, Denver, San Diego, United States of America; Winnipeg Manitoba, Canada)	1413



## ROOM 5.2

## SESSION 153

14:45 - 16:45

**Oral Presentation: Flexible bronchoscopy in the diagnosis of paediatric lung diseases****Chairs: F. De Benedictis (Ancona, Italy), K. Priftis (Kifisia, Greece)**

- 14:45 Airway-related complications in preterm infants who were intubated at birth  
P. Mondejar-Lopez, M. D. Pastor-Vivero, E. Bragado-Alcaraz, J. J. Quesada-Lopez, V. Perez-Fernandez, M. Sanchez-Solis, L. Garcia-Marcos (Murcia, Spain) 1414
- 15:00 The role of flexible bronchoscopy in evaluation of recurrent and persistent pneumonia in children  
Y. Gokdemir, E. Cakir, E. Erdem, R. Ersu, B. Karadag, F. Karakoc (Istanbul, Turkey) 1415
- 15:15 Bronchoscopic and high resolution CT findings in children with chronic wet cough  
K. Douros, E. Alexopoulou, A. Nicopoulou, M. Anthracopoulos, P. Yiallourous, A. Fretzayas, P. Nicolaidou, K. Priftis (Athens, Patra, Penteli, Greece; Limassol, Cyprus) 1416
- 15:30 Foreign body aspiration in children: Single center experience during a 4 years period  
M. Modaresi, M. Gorji, B. Ashjai, S. Mamishi, E. Soltani, N. Parvaneh (Tehran, Islamic Republic of Iran) 1417
- 15:45 BAL eosinophil counts and specific clinical phenotypes of asthmatic and/or atopic children  
D. Snijders, E. Bazzan, S. Bugin, L. Bottecchia, E. Mutti, A. Ballarin, G. Turato, S. Baraldo, M. Saetta, A. Barbato (Padova, Italy) 1418
- 16:00 Bacterial cultures in bronchoalveolar lavage fluid in children with chronic respiratory conditions  
P. Mondejar-Lopez, M. D. Pastor-Vivero, E. Bragado-Alcaraz, V. Perez-Fernandez, M. Sanchez-Solis, L. Garcia-Marcos (Murcia, Spain) 1419
- 16:15 The role of transbronchial biopsy in pediatric patients  
I. de Mir, A. Moreno, P. Gorriz, S. Rovira, A. Torrent, S. Gartner, C. Martin (Barcelona, Spain) 1420
- 16:30 Closing remarks "Flexible bronchoscopy in the diagnosis of paediatric lung diseases"  
F. De Benedictis (Ancona, Italy) 1421

SUNDAY  
25

## ROOM 3.1

## SESSION 154

14:45 - 16:45

**Oral Presentation: Physiology and cardiometabolic comorbidities in obstructive sleep apnoea****Chairs: P. Levy (Grenoble, France), M. Bonsignore (Palermo, Italy)**

- 14:45 Late-breaking abstract: Nocturnal intermittent hypoxia strongly predicts systemic hypertension in the European Sleep Apnoea Cohort Study  
R. Tkacova, W. McNicholas, M. Javorsky, I. Fietze, G. Parati, P. Sliwinski, L. Grote, J. Hedner (Kosice, Slovakia; Dublin, Ireland; Berlin, Germany; Milan, Italy; Warsaw, Poland; Gothenburg, Sweden) 1422
- 15:00 Functional imaging using computational fluid dynamics to assess effect of stimulation of the hypoglossal nerve on upper airway morphology: A pilot study  
J. De Backer, W. Vos, Q. Ni, O. Vanderveken, P. Parizel, P. Van De Heyning, W. De Backer (Kontich, Edegem, Belgium; Maple Grove, United States of America) 1423
- 15:15 Mechanical response to electrical- and neuro-stimulation of the genioglossus (GG) in propofol-sedated OSA patients  
Y. Dotan, L. Gaitini, A. Oliven (Haifa, Israel) 1424
- 15:30 Sleep apnea increases sympathetic activity independent of decreased neurovascular transduction  
R. Tamisier, C. O. Tan, J. L. Pepin, P. Levy, J. A. Taylor (Grenoble Cedex 09, France; Boston, United States of America) 1425
- 15:45 Chronic intermittent hypoxia is a major trigger for non-alcoholic fatty liver disease  
J. Aron-Wisnewsky, C. Minville, J. Tordjman, P. Levy, J. L. Bouillot, A. Basdevant, P. Bedossa, K. Clement, J. L. Pepin (Paris, Grenoble Cedex 09, Clichy, France) 1426
- 16:00 The impact of obstructive sleep apnea syndrome on superoxide dismutase-1 activity in erythrocytes of high risk for type 2 diabetes (pre-diabetic) males  
S. Cofta, E. Wysocka, T. Piorunek, M. Rzymkowska, L. Torlinski, H. Batura-Gabryel (Poznan, Poland) 1427
- 16:15 CPAP effects on leptin and visceral fat in patients with sleep apnea: Double-blind, randomized, controlled trial  
P. Lee, C. W. Yu, M. T. Lin, T. T. F. Shih, W. Y. Shau, H. D. Wu, C. T. Tang, S. H. J. Hsu, S. C. Wang, C. J. Yu, P. C. Yang (Taipei, Taiwan) 1428
- 16:30 Predictors of recurrence in patients undergoing cryoballoon ablation for treatment of atrial fibrillation: The independent role of sleep disordered breathing  
T. Bitter, G. Nölker, J. Vogt, K. J. Gutleben, N. Westerheide, D. Horstkotte, O. Oldenburg (Bad Oeynhausen, Bielefeld, Germany) 1429

## SUNDAY SEPTEMBER 25

## INTENSIVE CARE

ROOM 3.2

SESSION 155

14:45 - 16:45

**Oral Presentation: Advances in long-term noninvasive positive pressure ventilation****Chairs: W. Windisch (Cologne, Germany), P. Wijkstra (Groningen, The Netherlands)**

- 14:45 Respiratory mechanical and cardio-vascular changes during non invasive ventilation in stable COPD patients with chronic hypercapnic respiratory failure: High intensity ventilation vs low intensity ventilation  
J. Lukacsovits, A. Carlucci, N. Hill, P. Ceriana, L. Pisani, A. Schreiber, P. Pierucci, A. Lox, G. Losonczy, S. Nava (Pavia, Bologna, Italy; Budapest, Hungary) 1430
- 15:00 Lobar airway resistance and tissue stiffness in hypercapnic COPD patients eligible for NIV treatment  
V. Wim, L. De Backer, C. Van Holsbeke, J. De Backer, D. Daems, W. De Backer (Kontich, Edegem, Belgium) 1431
- 15:15 HOT HMV UK: An investigation into mechanisms of action of home mechanical ventilation (HMV) following acute hypercapnic exacerbations of COPD  
P. Murphy, J. Moxham, M. Polkey, N. Hart (London, United Kingdom) 1432
- 15:30 Polysomnography (PSG) under NIV in stable COPD to reduce patient-ventilator asynchrony (PVA) and morning breathlessness  
D. Adler, S. Perrig, H. Takahashi, F. Espa, D. Rodenstein, J. L. Pépin, J. P. Janssens (Geneva, Switzerland; Woluwe, Belgium; Grenoble, France) 1433
- 15:45 Impact of exhalation system and additional leak on oxygenation during noninvasive ventilation  
J. Storre, S. Huttman, E. Ekkernkamp, S. Walterspacher, M. Dreher, C. Schmoor, W. Windisch (Freiburg, Germany) 1434
- 16:00 Monitoring of non-invasive ventilation: Is the strategy used in daily practice enough?  
M. Georges, C. Rabec, N. Kabeya, D. NGuyen, A. Vagner, P. Camus (Dijon, France) 1435
- 16:15 Impact of three back-up rate (BUR) on subjective quality of sleep (QoS) and residual events in obesity-hypoventilation (OHS) treated by home non invasive ventilation (NIV): A randomised controlled trial  
O. Contal, J. C. Borel, D. Adler, F. Espa, D. Rodenstein, J. L. Pépin, J. P. Janssens (Geneva, Switzerland; Grenoble, France; Brussels, Belgium) 1436

## PHYSIOLOGY

ROOM 4.2

SESSION 156

14:45 - 16:45

**Oral Presentation: Functional lung and pulmonary arterial imaging****Chairs: W. De Wever (Leuven, Belgium), A. Grgic (Homburg, Germany)**

- 14:45 Diffusion weighted MR can improve preoperative lung cancer diagnosis  
J. Coolen, F. De Keyzer, P. De Leyn, J. Vansteenkiste, W. De Wever, H. De Caluwe, C. Dooms, E. Verbeken, W. Coosemans, D. Vanraemdonck, Y. Lievens, C. Deroose, V. Vandecaveye, K. Nackaerts, S. Dymarkowski, J. Verschakelen (Leuven, Belgium) 1437
- 15:00 Comparison of four-dimensional (4D) CT ventilation imaging with SPECT V/Q scans  
T. Yamamoto, S. Kabus, J. von Berg, C. Lorenz, M. Goris, B. Loo, P. Keall (Stanford, United States of America; Hamburg, Germany; Sydney, Australia) 1438
- 15:15 Micro-CT and <sup>18</sup>F-FDG micro-PET of pulmonary fibrosis in mice induced by adenoviral gene transfer of TGF- $\beta$ 1  
T. Rodt, C. von Falck, R. Halter, C. Boehm, M. Luepke, F. Laenger, J. Gauldie, J. Borlak, F. Wacker, U. Maus (Hannover, Germany; Hamilton, Canada) 1439
- 15:30 Association of texture-based quantitative fibrotic patterns and pulmonary function test in a new validation set  
H. Kim, M. Brown, F. Abtin, P. Lu, D. Chong, J. Goldin (Los Angeles, United States of America) 1440
- 15:45 Transthoracic echocardiography and pulmonary artery pressure assessment in patients with COPD exacerbation  
S. Skoczynski, K. Mizia-Stec, G. Brozek, E. Sozanska, Z. Gasior, W. Pierzchala (Katowice, Poland) 1441
- 16:00 Mean eccentricity index strongly reflects mPAP in patients with IPAH using CINE cardiac MRI  
A. Swift, S. Rajaram, R. Condliffe, H. Marshall, D. Capener, J. Hurdman, C. Elliot, D. Kiely, J. Wild (Sheffield, United Kingdom) 1442

## BASIC

EMERALD

SESSION 157

14:45 - 16:45

**Oral Presentation: Epithelial cells: role in health and disease****Chairs: R. Lutter (Amsterdam, The Netherlands), A. Fisher (Newcastle, United Kingdom)**

- 14:45 Late-breaking abstract: Activation of the macrophage inflammasome by TLR3 ligation potentiates release of IL-8 and IP-10 from alveolar type II epithelial cells via a paracrine cytokine network  
D. Grandolfo, A. Thorley, T. Tetley (London, United Kingdom) 1443
- 15:00 Compressive forces stimulate release of TGF $\beta$ 2 from differentiated bronchial epithelial cell cultures from asthmatic but not normal donors  
C. Grainge, P. Dennison, D. Davies, P. Howarth (Southampton, United Kingdom) 1444

- 15:15 SIRT6-induced activation of autophagy inhibits CSE-induced bronchial epithelial cell senescence  
N. Takasaka, J. Araya, H. Hara, S. Fujii, Y. Yumino, T. Munata, M. Kawaiishi, J. Hirano, M. Odaka, T. Morikawa, K. Nakayama, K. Kuwano (Minatoku, Japan) 1445
- 15:30 A three miRNA signature regulates the CF transmembrane conductance regulator (CFTR) in cystic fibrosis airway epithelium  
I. Oglesby, S. O'Neill, N. McElvaney, C. Greene (Dublin, Ireland) 1446
- 15:45 IL-17A induces glucocorticoid insensitivity in airway epithelial cells  
J. Zijlstra, N. ten Hacken, R. Hoffmann, A. van Oosterhout, I. Heijink (Groningen, The Netherlands) 1447
- 16:00 Corticosteroid-dependent transcription is reduced by inflammatory stimuli in human airway epithelial cells: Rescue by long-acting  $\beta_2$ -adrenoceptor agonists  
C. Rider, E. King, N. Holden, M. Giemmbycz, R. Newton (Calgary, Canada) 1448
- 16:15 Azithromycin fails to restore apoptosis in cystic fibrosis airway epithelium post viral infection  
E. Sutanto, C. Foo, A. Kicic, S. Stick, ARESTCF (Perth, Melbourne, Australia) 1449
- 16:30 Transcription factor p63 regulates differentiation- and repair-related genes in primary human bronchial epithelial cells: Implications for airway remodeling in asthma  
S. Warner, T. L. Hackett, F. Shaheen, D. Knight (Vancouver, Canada) 1450

## ROOM D203-204

## SESSION 158

14:45 - 16:45

## Oral Presentation: Exercise training: new populations, new techniques

Chairs: T. Troosters (Leuven, Belgium), R. Casaburi (Rancho Palos Verdes, United States of America)

- 14:45 Preliminary results of pulmonary rehabilitation in interstitial lung diseases: A randomised controlled trial  
B32220095560  
S. Pérez Bogerd, W. Wuyts, V. Barbier, D. Langer, C. Burtin, H. Van Remoortel, M. Decramer, ERS President 2011, T. Troosters, W. Janssens (Leuven, Belgium) 1451
- 15:00 Effects of exercise training after lung transplantation: 1 year follow-up of a randomized controlled trial  
D. Langer, T. Troosters, C. Burtin, L. Dupont, G. Verleden, M. Decramer, ERS President 2011, R. Gosselink (Leuven, Belgium) 1452
- 15:15 Comparison of two resistance training protocols on muscle strength, functional capacity and quality of life of stable untrained COPD  
R. Bonfim, E. M. C. Ramos, A. C. Toledo, G. N. B. Ferrari, L. C. Fosco, C. M. Pastre, D. Ramos (Presidente Prudente, Brazil) 1453
- 15:30 Non-linear exercise training is the preferred training method in patients with severe COPD  
P. Klijn, H. van Stel, T. van Keimpema, R. Gosselink (Hilversum, Utrecht, Amsterdam, The Netherlands; Leuven, Belgium) 1454
- 15:45 Effects of whole body vibration in patients with COPD: A randomized study  
B. Salhi, E. Derom (Ghent, Belgium) 1455
- 16:00 Home-based rehabilitation program for lung cancer patients  
V. Coats, F. Maltais, S. Simard, E. Fréchette, D. Saey (Québec, Canada) 1456
- 16:15 Exercise training improves exercise capacity and quality of life in people with dust-related pleural and interstitial respiratory diseases: A randomised controlled trial  
M. Dale, Z. McKeough, P. Munoz, P. Corte, P. Bye, J. Alison (Sydney, Australia) 1457
- 16:30 Referrals, attendance, delivery, and response in an integrated pulmonary rehabilitation pathway  
L. Hogg, R. Garrod, H. Thornton, L. McDonnell, H. Bellas, C. Davidson, P. White (London, United Kingdom) 1458

## ROOM G102-103

## SESSION 159

14:45 - 16:45

## Poster Discussion: Biomarkers and outcomes of community-acquired pneumonia

Chairs: A. Liapikou (Athens, Greece), R. Cosentini (Milan, Italy)

- P1459 Does the serum C-reactive protein (CRP) predict adverse outcomes in patients admitted with community acquired pneumonia?  
G. Walters, H. S. Liu, M. Gemza, F. Rauf (Worcester, United Kingdom)
- P1460 Biomarkers as complication predictors in community-acquired pneumonia  
S. Fandos, E. Mincholé, A. Lasiera, A. L. Simon, E. Vera, M. A. Ruiz, S. Bello (Zaragoza, Spain)
- P1461 Community acquired pneumonia (CAP) mortality and biomarkers  
A. B. Lasiera, S. Fandos, A. L. Simón, E. Mincholé, S. García, M. A. Ruiz, F. De Pablo, S. Bello (Zaragoza, Spain)
- P1462 Usefulness of CPR and PCT in the etiological diagnosis of community-acquired pneumonia  
R. Moreno, B. Montull, E. Polverino, S. Reyes, J. M. Sahuquillo, J. G. Córdoba, R. Martínez, C. Cilloniz, A. Gimeno, J. Sellarés, M. A. Marcos, R. Menéndez, A. Torres (Valencia, Barcelona, Spain)
- P1463 Lactate is an independent marker of severity in hospitalised patients with community-acquired pneumonia  
J. D. Chalmers, A. Singanayagam, A. Akram, P. Mandal, G. Choudhury, M. Smith, A. T. Hill (Edinburgh, United Kingdom)

## SUNDAY SEPTEMBER 25

- P1464 An unbalanced inflammatory response on admission impacts clinical stability in hospitalized patients with community-acquired pneumonia (CAP)  
S. Aliberti, L. C. Morlacchi, A. Gramegna, B. Dallari, S. Galbiati, R. Cosentini, A. M. Brambilla, F. Giuliani, A. Pesci, J. Bordon, F. Blasi (Monza, Milano, Italy; Washington, United States of America)
- P1465 Biomarkers and community acquired pneumonia (CAP) severity  
A. Lasierra, S. Fandos, E. Mincholé, A. L. Simon, M. A. Ruiz, D. Nieto, E. Forcén, S. Bello (Zaragoza, Spain)
- P1466 Biomarkers to discriminate bacterial, viral and mixed community acquired pneumonia (CAP)  
E. Mincholé, A. Lasierra, A. L. Simón, S. Fandos, M. A. Ruiz, V. Moya, F. De Pablo, S. Bello (Zaragoza, Spain)
- P1467 The ability of pro adrenomedullin to predict severe sepsis in patients with community-acquired pneumonia  
A. Uranga, P. P. España, A. Capelastegui, I. Gorordo, R. Diez, A. Bilbao, C. Mar, E. Bereciartua, E. Bereciartua (Galdakao, Sondika, Spain)
- P1468 Pro-adrenomedullin, pro-atrial natriuretic peptide and procalcitonin levels at admission in patients with community-acquired pneumonia and its correlation with risk scores  
A. Lacoma, A. Bas, P. Tudela, J. Dominguez, J. M. Mòdol, V. Ausina, C. Prat (Badalona, Spain)
- P1469 Inflammatory pattern in bacteriemic community-acquired pneumonia  
B. Montull, R. Menéndez, E. Polverino, S. Reyes, J. M. Sahuquillo, J. G. Córdoba, C. Cilloniz, R. Martínez, R. Moreno, A. Torres, J. Sellares, M. A. Marcos (Valencia, Barcelona, Spain)
- P1470 C-reactive protein (CRP) utility in severe community-acquired pneumonia (SCAP) prognosis  
A. Makarevich, O. Omelyanenko, E. Amelchenko, T. Rybina (Minsk, Republic of Belarus)
- P1471 Biomarkers in severe community-acquired pneumonia (SCAP) prognosis, complications and outcomes  
O. Omelyanenko, A. Makarevich, E. Amelchenko, T. Rybina (Minsk, Republic of Belarus)
- P1472 Comparison of inflammatory response biomarkers to predict complications in hospitalized patients with community-acquired pneumonia  
A. Uranga, P. P. España, A. Capelastegui, I. Gorordo, R. Diez, A. Bilbao, C. Mar, E. Bereciartua (Galdakao, Sondika, Spain)
- P1473 Prognostic value of cortisol and adrenocorticotrophic hormone (ACTH) in severe community-acquired pneumonia (SCAP) patients  
O. Omelyanenko, A. Makarevich, E. Amelchenko, T. Rybina (Minsk, Republic of Belarus)
- P1474 Interleukin-2 (IL-2) and interferon- $\gamma$  (IF- $\gamma$ ) in identifying severe community-acquired pneumonia (SCAP) clinical outcomes and complications  
A. Makarevich, O. Omelyanenko, E. Amelchenko, T. Rybina (Minsk, Republic of Belarus)
- P1475 Thyroid hormones implication in severe community-acquired pneumonia (SCAP): Relationship with survival, outcomes and clinical complications  
O. Omelyanenko, A. Makarevich, E. Amelchenko, T. Rybina (Minsk, Republic of Belarus)
- P1476 Pro-adrenomedullin, procalcitonin and CRP levels to predict bacterial pneumonia in patients admitted to emergency room  
A. Lacoma, C. Prat, P. Tudela, M. Giménez, A. Ramirez, J. M. Mòdol, J. Dominguez, V. Ausina (Badalona, Spain)

ROOM G104-105

SESSION 160

14:45 - 16:45

## Poster Discussion: Progress in pathology of lung cancer

Chairs: P. Schnabel (Heidelberg, Germany), S. Janes (Harpenden, United Kingdom)

- P1477 LSC 2011 Abstract: Molecular interplay between inflammation and occurrence of proliferation: Role of cadmium  
S. Kundu (Kolkata, India)
- P1478 LSC 2011 Abstract: Cigarette smoke-induced inflammation promotes melanoma cell metastasis in lung parenchyma  
S. Bekaert, N. Rocks, M. Gueders, G. Paulissen, A. Noël, D. Cataldo (Liège, Belgium)
- P1479 SK-216, an inhibitor of plasminogen activator inhibitor-1, limits tumor growth and lung metastasis formation probably through the reduction of tumor angiogenesis  
T. Masuda, N. Hattori, K. Hamai, S. Akita, T. Senoo, H. Iwamoto, S. Ohshimo, M. Kanehara, N. Ishikawa, K. Fujitaka, Y. Haruta, H. Murai, N. Kohno (Hiroshima, Japan)
- P1480 The long non-coding MALAT-1 RNA indicates a poor prognosis in NSCLC and induces migration and tumor growth  
L. H. Schmidt, T. Spieker, S. Koschmieder, J. Humberg, A. Hascher, E. Bulk, A. Marr, L. Hilljean, W. Berdel, C. Müller-Tidow, R. Wiewrodt (Muenster, Ostercappeln, Germany)
- P1481 Expression of miR-126 and miR-126\* in primary tumors and metastasis of adenocarcinoma and squamous carcinoma of the lung  
L. Cavalho, S. Romano, M. Silva, P. Santos (Coimbra, Portugal)
- P1482 Expression and significance of VE-cadherin and E-cadherin in non-small cell lung cancer  
H. Chen, J. Tao, M. Suzuki, Y. Li, Y. Wang (Chongqing, China; Kumamoto, Japan)
- P1483 Transcriptional regulation of the human osteopontin promoter in non-small cell lung cancer  
M. K. Byun, J. A. Shin, H. J. Kim, Y. S. Chang (Seoul, Republic of Korea)
- P1484 PD-L1 is a potential negative prognostic factor for non-small cell lung cancer: A 5-year-follow-up study  
J. A. Huang, Y. B. Chen, C. Y. Mu (Suzhou, China)

- P1485 Expression of survivin and p53 protein in pulmonary tumours  
E. Halasova, M. Adamkov, T. Matakova, E. Kavcova, E. Rozborilova, D. Dobrota (Martin, Slovakia)
- P1486 Inhibitor of DNA-binding (Id) – 1 and 3 proteins overexpression has impact on prognosis of lung adenocarcinoma  
L. Antonangelo, T. Tuma, F. Vargas, E. Parra, R. Terra, M. Acencio, L. Teixeira, V. Capelozzi (São Paulo, Brazil)
- P1487 Adenovirus-mediated AP-2 $\alpha$  down-regulates MnSOD expression in lung cancer A549 cells and its molecular mechanism  
R. Zhou, Y. He, P. Chen, G. S. Zhang, S. H. Zou (Changsha, China)
- P1488 Telomerase (h-TERT) and targeting EGFR in non small cell lung carcinoma: A combined immunohistochemistry and chromogenic in situ hybridization study based on tissue microarrays  
A. Stamatelopoulos, E. Tsiambas, P. Michos, I. Gakidis, A. Karameris, D. Bouros (Athens, Alexandropole, Greece)
- P1489 Inhibition of B7-H4 gene expression by RNA interference (RNAi) in lung cancer A549 cell line  
S. Sun, Y. Lin, P. Huang, C. Jiang, Y. Jin (Nanjing, China)
- P1490 Novel functions of stanniocalcin-1 (STC1) through uncoupling protein 2 (UCP2) up-regulation; promoting survival of cancer cells under oxidative stress and inducing the uncoupling respiration (Warburg effect)  
S. Ohkouchi, T. Kikuchi, M. Ebina, T. Nukiwa (Sendai, Japan)
- P1491 TNF neutralization ameliorates urethane-induced lung carcinogenesis  
S. P. Karabela, G. T. Stathopoulos (Athens, Greece)
- P1492 Krebs von den Lungen-6 (KL-6) is a prognostic biomarker in patients with surgically resected non-small cell lung cancer  
S. Tanaka, N. Ishikawa, N. Hattori, H. Hamada, A. Yokoyama, N. Kohno (Hiroshima, Nankoku, Japan)
- P1493 Potential therapeutic significance of CIK cells in gefitinib resistant NSCLC with EGFR mutations  
C. He, B. Yu, J. Wang, J. Xu (Guangzhou, Shenzhen, China)
- P1494 Expression of immunohistochemical markers chromogranin A, Ki-67, CD99, EGFR in resected pulmonary neuroendocrine tumors  
Y. Slavova, D. Marinova, V. Maksimov, D. Petrov, E. Goranov, V. Djambazov (Sofia, Bulgaria)

ROOM G106-107

SESSION 161

14:45 - 16:45

**Poster Discussion: Paediatric epidemiology: predicting outcomes of wheeze, antenatal growth, early life exposures and outcome of premature birth**

**Chairs: B. Spycher (Bern, Switzerland), B. Karadag (Umraniye Istanbul, Turkey)**

- P1495 Natural history of recurrent cough in children  
M. P. F. Strippoli, A. M. Pescatore, B. D. Spycher, C. S. Beardsmore, M. Silverman, C. E. Kuehni (Bern, Switzerland; Leicester, United Kingdom)
- P1496 Robust prediction of later asthma in symptomatic toddlers: A novel approach  
A. Pescatore, B. Spycher, L. Duembgen, M. P. Strippoli, C. Dogaru, M. Silverman, C. Kuehni (Bern, Switzerland; Bristol, Leicester, United Kingdom)
- P1497 Phenotypes of childhood wheeze: Early symptom pattern vs. long term disease course  
B. Spycher, R. Granell, J. Sterne, J. Henderson (Bristol, United Kingdom)
- P1498 Allergic females have the lowest chance of recovery following early wheezing  
E. Goksör, M. Åmark, B. Alm, G. Wennergren (Gothenburg, Sweden)
- P1499 Predictors of asthma symptom remission after five years of age  
S. Turner, N. Prabhu, R. Cutts, K. Allen, P. Helms, A. Seaton, G. Devereux (Aberdeen, United Kingdom)
- P1500 First and second trimester fetal size and asthma outcomes at age ten years  
S. Turner, N. Prabhu, R. Cutts, P. Danielian, K. Allen, L. Craig, G. McNeill, P. Helms, A. Seaton, G. Devereux (Aberdeen, United Kingdom)
- P1501 Fetal and infant growth is associated with wheezing in preschool children. The Generation R study  
A. Sonnenschein-van der Voort, J. de Jongste, A. Hofman, H. Moll, E. Steegers, V. Jaddoe, L. Duijts (Rotterdam, The Netherlands)
- P1502 Longitudinal development of lung function in extremely preterm infants  
M. Vollsaeter, O. Røksund, G. E. Eide, M. Trond, T. Halvorsen (Bergen, Norway)
- P1503 Risk factors for lower respiratory illnesses (LRI) in infants < 32 wks gestational age (GA): Do they differ by type of illness?  
F. Rusconi, M. Da Frè, V. Carnielli, V. Chianotto, C. Corchia, D. Di Lallo, M. Fertz, S. Miniaci, S. Piga, M. Cuttini (Florence, Ancona, Udine, Roma, Rome, Trieste, Catanzaro, Italy)
- P1504 Preterm birth and inhaled corticosteroid usage in 6-19-year-olds – A Swedish national cohort study  
H. Vogt, K. Lindström, L. Bråbäck, A. Hjern (Linköping, Stockholm, Umeå, Sweden)
- P1505 Early life antecedents of persistent wheeze in young adults  
D. Mullane, S. Turner, D. Cox, J. Goldblatt, P. Le Souef (Perth, Australia; Aberdeen, United Kingdom)
- P1506 Factors associated to an earlier wheezing episode during the first year of life in Europe and Latin America: The EISL study  
L. Garcia-Marcos, J. Mallol, D. Sole, P. Brand, M. Sanchez-Solis, V. Perez-Fernandez, EISL Study Group (Murcia, Spain; Santiago, Chile; São Paulo, Brazil; Zwolle, The Netherlands)

## SUNDAY SEPTEMBER 25

- P1507 Long-term evolution of virus-induced and multi-trigger wheeze in children of the EGEA study  
I. Pin, V. Siroux, A. Boudier, L. Vignoud-Nicollet, J. Just, F. Kauffmann (Grenoble, Paris, Villejuif, France)
- P1508 Determinants of lung function and bronchodilator response in 4-year-old children  
S. Dom, E. Oostveen, J. Droste, M. Hagendorens, J. Weyler (Antwerp, Edegem, Belgium)
- P1509 Indoor endotoxin and respiratory symptoms in urban schoolchildren  
G. Wong, T. F. Leung, E. Yung (Hong Kong, Hong Kong)
- P1510 Does maternal smoking play a role as an inducer, rather than trigger, of asthma and respiratory symptoms?  
M. Upton, A. McConnachie, C. Hart, G. Davey Smith, G. Watt (Glasgow, Bristol, United Kingdom)
- P1511 Microbial markers and the development of asthma in childhood: A birth cohort study  
A. M. Karvonen, A. Hyvärinen, H. Rintala, M. Korppi, L. Keski-Nisula, S. Remes, J. Lampi, A. Nevalainen, J. Pekkanen (Kuopio, Tampere, Finland)

ROOM E104-106

SESSION 162

14:45 - 16:45

**Poster Discussion: Clinical characteristics of patients with pulmonary hypertension****Chairs: G. Simonneau (Clamart, France), P. Corris (Newcastle-Upon-Tyne, United Kingdom)**

- P1512 Right ventricular dyssynchrony measured using speckle tracking strain as a predictive factor in pulmonary hypertension patients  
B. Lamia, L. C. Molano, C. Viacroze, A. Cuvelier, J. F. Muir (Rouen, France)
- P1513 Clinical evaluation of RV wall stress in pulmonary arterial hypertension: A follow-up study using magnetic resonance imaging  
S. A. Dusoswa, M. C. van de Veerdonk, T. Kind, J. T. Marcus, N. Westerhof, A. Vonk-Noordegraaf (Amsterdam, The Netherlands)
- P1514 Ventilation perfusion lung scan in pulmonary veno-occlusive disease  
A. Seferian, B. Helal, X. Jaïs, B. Girerd, S. Günther, L. Savale, P. Dorfmueller, A. Huertas, O. Sitbon, M. Humbert, G. Simonneau, D. Montani (Clamart, Le Plessis Robinson, France)
- P1515 Current practice for determining pulmonary capillary wedge pressure predisposes to serious errors in the classification of patients with pulmonary hypertension  
J. Ryan, J. Rich, T. Thiruvoipati, G. Kim, S. Rich (Chicago, United States of America)
- P1516 Increased renin-angiotensin-aldosterone system activity in lungs of patients with idiopathic pulmonary arterial hypertension  
F. S. de Man, C. Guignabert, L. Tu, C. Francois, G. Simmoneau, E. Fadel, M. Humbert, A. Vonk-Noordegraaf, S. Eddahibi (Le Plessis-Robinson, France; Amsterdam, The Netherlands)
- P1517 Changes in right ventricular mass are unrelated to changes in pulmonary pressures in pulmonary arterial hypertension  
M. van de Veerdonk, S. Dusoswa, T. Kind, J. Marcus, N. Westerhof, A. Vonk-Noordegraaf (Amsterdam, The Netherlands)
- P1518 Systemic hypoxia contributes to pulmonary hypertension in heart failure  
B. Taylor, C. Mojica, T. Olson, P. Woods, B. Johnson (Rochester, United States of America)
- P1519 Atrial arrhythmias in pulmonary hypertension  
R. Turner, J. Hurdman, M. Menon, C. Elliot, D. Kiely, R. Condliffe (Sheffield, United Kingdom)
- P1520 Estimation of right ventricular isovolumic pressure in experimental pulmonary hypertension from a single ejecting beat  
T. Kind, G. Ruiter, T. J. C. Faes, L. M. Handoko, I. Schalij, A. Vonk Noordegraaf, N. Westerhof (Amsterdam, The Netherlands)
- P1521 Contribution of increased afterload to right ventricular ejection fraction in pulmonary hypertension  
S. Hoette, N. Creuze, D. Musset, D. Montani, F. Parent, D. O'Callaghan, A. Seferian, O. Sitbon, G. Simonneau, M. Humbert, D. Chemla (Clamart, France)
- P1522 Chronic thromboembolic pulmonary hypertension and idiopathic pulmonary hypertension are the conditions predisposing to non-tuberculous mycobacterial lung disease (NTMLD)  
M. Szturmowicz, E. Wilinska, K. Oniszh, E. Augustynowicz-Kopec, A. Zabost, M. Kurzyna, A. Fijalkowska, J. Kober, J. Zylkowska, M. Florczyk, A. Torbicki (Warsaw, Poland)
- P1523 Circulating fibrocytes in pulmonary arterial hypertension  
N. Gambaryan, M. David, G. Barbara, H. Alice, S. Cohen-Kaminsky, H. Marc, F. Perros (Kremlin-Bicêtre, Le Plessis-Robinson, Clamart, France)
- P1524 Role of mast cells and chymase in pulmonary vascular remodeling  
B. K. Dahal, D. Kosanovic, J. Messinger, Y. Fischer, K. Hoffmann, J. Antel, B. Husen, N. Hanke, S. Mayet, H. A. Ghofrani, N. Weissmann, F. Grimminger, W. Seeger, R. Schermuly (Giessen, Hannover, Bad Nauheim, Germany)
- P1525 Frequency and impact on prognosis of signs of pulmonary veno-occlusive disease on high resolution computed tomography in patients with scleroderma associated pulmonary arterial hypertension  
S. Günther, S. Maitre, A. Berezne, X. Jaïs, A. Seferian, O. Sitbon, G. Simonneau, L. Mouthon, M. Humbert, D. Montani (Clamart, Paris, France)

- P1526 How does variation of the bag volume in inert gas rebreathing cardiac output measurements influence the reproducibility in patients with pulmonary diseases?  
F. Trinkmann, F. Kraus, M. Borggreffe, J. J. Kaden, J. Saur (Mannheim, Germany)
- P1527 Characteristics of patients with pulmonary arterial hypertension associated with congenital heart disease in the French PAH registry  
X. Jais, D. Bonnet, L. Rottat, I. Szezepanski, M. Lévy, V. Gressin, M. Humbert, O. Sitbon, G. Simonneau (Clamart, Paris, France)
- P1528 Idiopathic pulmonary arterial hypertension in the elderly: Data from the French registry  
F. Lador, O. Sitbon, A. Yaïci, E. Bergot, V. Cottin, L. Rottat, V. Gressin, M. Humbert, G. Simonneau (Clamart, Caen, Lyon, Paris, France; Geneva, Switzerland)
- P1529 Assessment of operability by means of CTPA and perfusion SPECT in patients with chronic thromboembolic pulmonary hypertension  
A. Grgic, F. Miodek, C. Frantz, A. Buecker, F. Khreish, M. Boehm, H. J. Schaeffers, R. Bals, C. M. Kirsch, H. Wilkens (Homburg, Germany)

ROOM E102

SESSION 163

14:45 - 16:45

**Poster Discussion: Exercise assessment in different diseases****Chairs: D. O'Donnell (Kingston, Canada), C. Spengler (Zurich, Switzerland)**

- P1530 Metabolic and cardiopulmonary responses to the incremental shuttle walk test vs. six-minute walk test in healthy older adults  
V. Dourado, R. Guerra, S. Tanni, L. Antunes, I. Godoy (Santos, Botucatu, Brazil)
- P1531 Peculiarities of peripheral blood flow reaction during cold air bronchoprovocation  
J. M. Perelman, A. G. Prikhodko (Blagoveschensk, Russian Federation)
- P1532 Evaluation of two methods for measurement of cardiac output during exercise in patients with COPD  
I. Nasis, D. Athanasopoulos, E. Cherouveim, Z. Louvaris, M. Vasilopoulou, H. Habazettl, H. Wagner, P. D. Wagner, S. Zakynthinos, I. Vogiatzis (Athens, Greece; Berlin, Germany; La Jolla, United States of America)
- P1533 Evaluation of heliox or oxygen breathing on improved quadriceps muscle oxygen delivery during exercise in COPD  
V. Andrianopoulos, Z. Louvaris, E. Kortianou, H. Habazettl, S. Zakynthinos, P. D. Wagner, I. Vogiatzis (Athens, Greece; Berlin, Germany; San Diego, United States of America)
- P1534 Dynamic pathophysiology in stable COPD patients with severely reduced exercise capacity  
R. Maekura, T. Hiraga, K. Miki, S. Kitada, K. Yoshimura, Y. Tateishi (Toyonaka, Japan)
- P1535 Inspiratory muscle training (IMT) with normocapnic hyperventilation (NH) improves respiratory muscle strength, exercise performance and ventilatory pattern in COPD patients  
L. Pomidori, E. Bernardi, G. Grassi, E. Melloni, G. Mandolesi, A. Cogo (Ferrara, Italy)
- P1536 Impact of anemia on dyspnea on exertion and exercise tolerance in patients with acute exacerbation of chronic obstructive pulmonary disease  
A. Nowinski, D. Kaminski, D. Korzybski, M. Bednarek, A. Stoklosa, D. Gorecka (Warsaw, Poland)
- P1537 Association between physical activity and asthma exacerbations  
S. Pascual, I. Urrutia, C. Esteban, A. Ballaz, J. Moraza, U. Aguirre, I. Larrea, I. Arrizubieta, M. Cascon (Galdakao, San Eloy, Spain)
- P1538 The usefulness of ventilatory gas analysis during low intensity exercise to define pulmonary hypertension  
P. Woods, R. Frantz, B. Taylor, T. Olson, B. Johnson (Rochester, United States of America)
- P1539 Cardiac bioimpedance during exercise testing in patients with idiopathic pulmonary arterial hypertension  
R. Kaiser, C. Frantz, K. Hadasch, C. Lensch, R. Bals, H. Wilkens (Homburg, Germany)
- P1540 Effects of continuous vs. interval aerobic training on PetCO<sub>2</sub> response during graded exercise test in patients with coronary artery disease  
E. Rocco, D. M. Prado, A. Silva, J. Lazzari, P. Bortz, D. Rocco, A. Campolin, C. Rosa, V. Furlan (São Paulo, Santos, Brazil)
- P1541 Quantifying oscillatory ventilation during exercise in patients with heart failure  
T. Olson, K. Beck, B. Johnson (Rochester, United States of America)
- P1542 The pattern and timing of breathing during graded exercise test in systemic lupus erythematosus  
D. M. Prado, R. Miozzi, F. Lima, B. Gualano, H. Roschel, E. Borba, E. Bonfa, A. L. Sá Pinto (São Paulo, Brazil)
- P1543 Utility of ergospirometry in the diagnosis of hyperventilation syndrome (HVS)  
A. Tiotiu, A. Nosedá, S. Abdelkafi (Nancy, France; Brussels, Belgium)
- P1544 Exercise capacity as an index of progress of lung disease among children and adolescents with CF  
E. Hatziaiorou, V. Georgopoulou, K. Kontouli, V. Avramidou, F. Kirvassilis, J. Tsanakas (Thessaloniki, Greece)
- P1545 Children with bronchopulmonary dysplasia (BPD) have increased dynamic flow limitation and an altered ventilatory response to exercise  
C. O'Dea, K. Logie, A. Wilson, A. Maiorana, J. Pillow, G. Hall (Perth, Australia)
- P1546 Consequences of obesity on gas exchange during exercise  
B. Matula, S. Majerník, P. Kabaivanov, D. Magula, J. Plutinsky (Nitra, Slovakia)

## SUNDAY SEPTEMBER 25

- P1547 Oxygen saturation response during the six-minute walk test in patients with chronic respiratory disease  
R. Carrión-Sevilla, E. Gimeno-Santos, D. A. Rodriguez, A. Ramirez-Sarmiento, J. Gea, J. Roca, M. Orozco-Levi, J. Vilaró (Barcelona, Spain)

ROOM D201-202

SESSION 164

14:45 - 16:45

**Poster Discussion: Smoking-related disorders and smoking prevention****Chairs: G. Zabert (Neuquen, Argentina), M. Garcia (Malaga, Spain)**

- P1548 Prevention of passive smoking exposure in children at risk for asthma: Results of a pilot study  
S. Hutchinson, I. Mesters, O. van Schayck, E. Dompeling (Maastricht, The Netherlands)
- P1549 Exposure to environmental tobacco smoke in childhood is associated to lung function in smoking adults  
O. Omland, T. Malling, O. F. Pedersen, V. Schlünssen, T. Sigsgaard, L. Skadhauge, D. Sherson, J. Bælum, G. Tomsen (Aalborg, Århus, Esbjerg, Odense, Denmark)
- P1550 Environmental tobacco smoke (ETS) in allergic asthma: A parallel exposure study in human subjects and sensitized allergic Balb/c mice  
M. Gaisberger, H. Dobias, R. Mikes, F. Grabcanovic-Musija, B. Lamprecht, W. Gertraud, R. Sanovic, A. Hartl, M. Studnicka (Salzburg, Austria)
- P1551 Smoking rates in pregnant women one year before and after the Irish workplace smoke-free policy: A widening gap?  
Z. Kabir, H. McAvoy, U. Reulbach, J. Wilde, S. Daly, L. Clancy (Dublin, Ireland)
- P1552 Confusing communication by health organizations in the public debate on legal smoking ban in Switzerland  
R. Kaelin, P. Diethelm (Morges, Geneva, Switzerland)
- P1553 Comparison of tobacco control policies in the eastern Mediterranean countries based on tobacco control scale scores  
G. Heydari (Tehran, Islamic Republic of Iran)
- P1554 The role of the smoke-free legislation on emergency department admissions due to tobacco-related diseases in Kocaeli  
F. Yildiz, S. Baris, I. Basyigit, H. Boyaci, H. Aydinlik, P. Sonmez (Kocaeli, Turkey)
- P1555 Tobacco smoking and cardiovascular parameters  
T. Levina, J. Krasnova, A. Dzizinskii (Irkutsk, Russian Federation)
- P1556 Does smoking impair the quality of life of 34 year olds with alpha-1 antitrypsin deficiency?  
L. Cano Montero, M. Nystedt- Düzakin, E. Piitulainen (Malmö, Sweden)
- P1557 Stress influence on smoking behavior of teenagers  
A. Bonilha, E. Souza, A. Ruffino Netto, J. Baddini Martinez (Ribeirao Preto, Brazil)
- P1558 Predictive role of smoking in the development of mucociliary insufficiency in patients with chronic non-obstructive bronchitis  
V. P. Kolosov, A. N. Odireev, A. V. Kolosov (Blagoveschensk, Russian Federation)
- P1559 Surfactant protein D as a potential serum marker of pulmonary emphysema  
T. Hamada, T. Samukawa, G. Tsukuya, K. Oketani, H. Tsubouchi, H. Inoue (Kagoshima, Japan)
- P1560 Widening inequalities in smoking rates in the Republic of Ireland?  
Z. Kabir, H. McAvoy, U. Reulbach, J. Wilde, L. Clancy (Dublin, Ireland)
- P1561 Smokeless tobacco use among young male adults in northern Finland  
A. Hamari, T. Toljamo, P. Nieminen, V. Kinnula (Helsinki, Rovaniemi, Oulu, Finland)
- P1562 Phenotypic features in COPD smokers attending a smoking cessation unit  
C. A. Jimenez Ruiz, A. M. Cicero Guerrero, M. L. Mayayo Ulibarri, M. I. Cristobal Fernandez, G. Lopez Gonzalez (Madrid, Spain)
- P1563 Prevalence and predictors of smoking cessation rates in Ireland: A follow-up cross-sectional study  
S. Keogan, Z. Kabir, L. Currie, M. Gunning, P. Campbell, L. Clancy (Dublin, Ireland)

ROOM 7.1

SESSION 176

17:15 - 19:15

**Evening Symposium: COPD - On Target***Organised by Nycomed GmbH***Chair: J. Vestbo (Hvidovre, Denmark)**

- 17:15 Welcome and introduction  
J. Vestbo (Hvidovre, Denmark) 1564
- 17:20 Targeting COPD therapy - options and challenges  
J. Vestbo (Hvidovre, Denmark) 1565
- 17:45 Inflammation in COPD - the right target  
P. J. Barnes (London, United Kingdom) 1566
- 18:10 Targeted therapy for COPD patients  
F. J. Martinez (Ann Arbor, United States of America) 1567
- 18:35 On target - Roflumilast in real life  
R. Buhl (Mainz, Germany) 1568
- 19:00 Discussion  
J. Vestbo (Hvidovre, Denmark) 1569



## AUDITORIUM

## SESSION 177

17:15 - 19:15

**Evening Symposium: A comprehensive approach to managing COPD exacerbations***Organised by Boehringer Ingelheim/Pfizer***Chair: D. Halpin (Exeter, United Kingdom)**

17:15	Introduction, relevance of COPD exacerbations and impact on healthcare systems D. Halpin (Exeter, United Kingdom)	1570
17:40	COPD exacerbations: pathogenesis, phenotypes and implications for patients L. M. Fabbri (Modena, Italy)	1571
18:10	Frequency patterns, prevention and management of exacerbations K.M. Beeh (Wiesbaden, Germany)	1572
18:45	Seasonality of COPD exacerbations and diagnostic challenges in daily practice A. Kaplan (Richmond Hill, Canada)	1573
19:10	Chairman's summary and meeting close D. Halpin (Exeter, United Kingdom)	1574

## ROOM 7.2

## SESSION 178

17:15 - 19:15

**Evening Symposium: Innovation for individualisation: patients, phenotypes and pathways***Organised by GlaxoSmithKline***Chair: A. Woodcock (Manchester, United Kingdom)**

17:15	Welcome and introduction A. Woodcock (Manchester, United Kingdom)	1575
17:25	COPD: what can systems biology teach us? A. Agusti (Barcelona, Spain)	1576
17:50	COPD phenotypes: using ECLIPSE to help us characterise COPD patients D. Lomas (Cambridge, United Kingdom)	1577
18:15	Asthma phenotypes: helping to characterise asthma patients I. Pavord (Leicester, United Kingdom)	1578
18:40	What is an effective treatment for asthma? Theory vs fact E. D. Bateman (Cape Town, South Africa)	1579
19:05	Conclusion and close A. Woodcock (Manchester, United Kingdom)	1580

## ELICIUM 2

## SESSION 179

17:15 - 19:15

**Evening Symposium: Omalizumab and allergic asthma: latest clinical evidence and long-term safety data***Organised by Novartis Pharma AG***Chair: N. Hanania (Houston, United States of America)**

17:15	Chair's introduction N. Hanania (Houston, United States of America)	1581
17:20	Evidence for IgE modulation over time in severe persistent allergic asthma patients G. Johansson (Stockholm, Sweden), P. Lowe (Basel, Switzerland)	1582
17:55	Expanded clinical trial pool safety data: including a malignancy update N. Hanania (Houston, United States of America)	1583
18:25	Allergic asthma and pregnancy: an interim analysis from the US omalizumab pregnancy registry N. Ostrom (San Diego, United States of America)	1584
18:55	Chair's summary N. Hanania (Houston, United States of America)	1585
19:05	Q&A and close N. Hanania (Houston, United States of America), G. Johansson (Stockholm, Sweden), N. Ostrom (San Diego, United States of America), P. Lowe (Basel, Switzerland)	1586

*The presentations may contain information on products or indications currently under investigation and that have not been approved. Only approved products may be prescribed, in accordance with their approved label. Indications may vary from country to country. Physicians should refer to their local Prescribing Information.*

## SUNDAY SEPTEMBER 25

## ROOM 5.1

## SESSION 180

17:15 - 19:15

**Evening Symposium: New decade, new approaches to respiratory tract infections***Organised by Bayer HealthCare Pharmaceuticals***Chair: A. Anzueto (San Antonio, United States of America)**

17:15	Introduction	
	A. Anzueto (San Antonio, United States of America)	1587
17:25	Improving outcomes in COPD	
	M. Miravittles (Barcelona, Spain)	1588
17:50	Bacteria in acute exacerbations of COPD: cause or co-morbidity?	
	S. Sethi (Buffalo, United States of America)	1589
18:15	Acute exacerbations of COPD clinical trials: which patients, what endpoints?	
	R. Wilson (London, United Kingdom)	1590
18:40	Panel discussion	
	A. Anzueto (San Antonio, United States of America), S. Sethi (Buffalo, United States of America), M. Miravittles (Barcelona, Spain), R. Wilson (London, United Kingdom)	1591

## ELICIUM 1

## SESSION 181

17:15 - 19:15

**Evening Symposium: The poorly explored impacts of uncontrolled asthma***Organised by AstraZeneca***Chairs: P. O'Byrne (Hamilton, Canada), W. Busse (Madison, United States of America)**

17:15	Introduction	
	P. O'Byrne (Hamilton, Canada)	1592
17:20	Impact on exercise, fitness and obesity	
	S. Pedersen (Kolding, Denmark)	1593
17:45	Impact on mental health and learning	
	W. Busse (Madison, United States of America)	1594
18:10	Impact on lung infections	
	P. O'Byrne (Hamilton, Canada)	1595
18:35	Impact on pregnancy	
	M. Schatz (San Diego, United States of America)	1596
19:00	Q&A	
	P. O'Byrne (Hamilton, Canada), S. Pedersen (Kolding, Denmark), W. Busse (Madison, United States of America), M. Schatz (San Diego, United States of America)	1597
19:10	Summary and close	
	W. Busse (Madison, United States of America)	1598

## FORUM

## SESSION 182

17:15 - 19:15

**Evening Symposium: Combination therapy in asthma: what influences real-world effectiveness?***Organised by Mundipharma***Chair: A. Papi (Ferrara, Italy)**

17:15	Chair's welcome	
	A. Papi (Ferrara, Italy)	1599
17:20	ICS/LABA therapy: what the latest data tell us	
	A. Papi (Ferrara, Italy)	1600
17:35	ICS/LABA effectiveness: molecular pharmacology matters	
	M. Tamm (Basel, Switzerland)	1601
17:50	ICS/LABA effectiveness: the importance of a fine particle fraction	
	N. Roche (Paris, France)	1602
18:05	Panel debate	
	ICS/LABA effectiveness: what do the data really mean?	
	A. Papi (Ferrara, Italy), M. Tamm (Basel, Switzerland), N. Roche (Paris, France)	1603
18:20	ICS/LABA attributes: physician check list	
	D. Price (Cawston, United Kingdom)	1604
18:35	ICS/LABA attributes: patient check list	
	J. C. Virchow (Rostock, Germany)	1605

18:50	Panel discussion and questions from the audience A. Papi (Ferrara, Italy), M. Tamm (Basel, Switzerland), N. Roche (Paris, France), D. Price (Cawston, United Kingdom), J. C. Virchow (Rostock, Germany)	1606
19:10	Session close A. Papi (Ferrara, Italy)	1607

## ROOM 5.2

## SESSION 183

17:15 - 19:15

**Evening Symposium: Pulmonary Arterial Hypertension (PAH):  
Optimising Management for Today – Developing New Therapies for Tomorrow**

*Organised by Actelion Pharmaceuticals Ltd*

**Chairs: M. M. Hoeper (Hannover, Germany), G. Simonneau (Clamart, France)**

17:15	Introduction G. Simonneau (Clamart, France)	1608
17:25	Evolution of PAH and patient characteristics – Registry data in 2011 S. Gibbs (London, United Kingdom)	1609
17:45	Functional class II PAH – Examining long-term data from the EARLY study O. Sitbon (Clamart, France)	1610
18:05	Improvement of FC in PAH – The impact on long-term outcome I. Preston (Boston, United States of America)	1611
18:25	Novel therapies and innovative trial design – Where do we stand? S. Gaine (Dublin, Ireland)	1612
18:45	Panel discussion G. Simonneau (Clamart, France), S. Gibbs (London, United Kingdom), O. Sitbon (Clamart, France), I. Preston (Boston, United States of America), S. Gaine (Dublin, Ireland), M. M. Hoeper (Hannover, Germany)	1613
19:05	Closing remarks M. M. Hoeper (Hannover, Germany)	1614

## ROOM 3.1

## SESSION 184

17:15 - 19:15

**Evening Symposium: IPF: new knowledge and new hope for patients**

*Organised by InterMune, Inc.*

**Chair: U. Costabel (Essen, Germany)**

17:15	Introduction U. Costabel (Essen, Germany)	1615
17:20	Earlier and more confident diagnosis of IPF R. M. du Bois (London, United Kingdom)	1616
17:45	Unravelling the progressive nature of IPF – insights into the pathomechanism and anti-fibrotic strategies A. Guenther (Giessen, Germany)	1617
18:10	Changing the IPF treatment approach and improving patient outcomes – the role of pirfenidone V. Cottin (Lyon, France)	1618
18:35	Meta-analyses and treatment effect – the Cochrane Review L. Richeldi (Modena, Italy)	1619
19:00	Q&A and conclusions U. Costabel (Essen, Germany)	1620

## ROOM 3.2

## SESSION 185

17:15 - 18:45

**Evening Symposium: The 2011 PAH debate: what is the biggest challenge we face to  
optimise patient outcome?**

*Organised by United Therapeutics Europe, Ltd.*

**Chair: A. Boonstra (Amsterdam, The Netherlands)**

17:15	Chairman's welcome and introduction A. Boonstra (Amsterdam, The Netherlands)	1621
17:25	The biggest challenge we face in PAH today is ... To diagnose patients sooner C.D. Vizza (Rome, Italy)	1622
17:45	The biggest challenge we face in PAH today is ... To recognise deterioration sooner M. Delcroix (Leuven, Belgium)	1623
18:05	The biggest challenge we face in PAH today is ... To treat more aggressively I. Lang (Vienna, Austria)	1624

## SUNDAY SEPTEMBER 25

18:25	Panel discussion and audience Q&A C.D. Vizza (Rome, Italy), M. Delcroix (Leuven, Belgium), I. Lang (Vienna, Austria), A. Boonstra (Amsterdam, The Netherlands)	1625
18:40	Chairman's take-away messages A. Boonstra (Amsterdam, The Netherlands)	1626

## ROOM 4.2

## SESSION 186

17:15 - 19:15

**Evening Symposium: Pneumococcal disease in adults: a remaining challenge...***Organised by Pfizer Inc.***Chairs: A. Sayiner (Izmir, Turkey), A. Torres (Barcelona, Spain)**

17:15	Chairman's welcome and introduction A. Sayiner (Izmir, Turkey)	1627
17:25	Pneumococcal disease in adults: The burden on healthcare systems in Europe G. Rohde (Maastricht, The Netherlands)	1628
17:50	Diagnosis and treatment of pneumococcal disease in adults E. Ludwig (Budapest, Hungary)	1629
18:15	Pneumococcal disease: different profiles for different people P. Bonanni (Florence, Italy)	1630
18:40	Q&A A. Torres (Barcelona, Spain), A. Sayiner (Izmir, Turkey), G. Rohde (Maastricht, The Netherlands), E. Ludwig (Budapest, Hungary), P. Bonanni (Florence, Italy)	1631
19:05	Summary and close A. Torres (Barcelona, Spain)	1632

## EMERALD

## SESSION 187

17:15 - 19:15

**Evening Symposium: The older you get, the better you are: innovative concepts for reduction of exacerbations in COPD patients***Organised by OM Pharma***Chair: H. Lode (Berlin, Germany)**

17:15	Chairman's introduction H. Lode (Berlin, Germany)	1633
17:20	Roles and consequences of inflammation and bacterial colonisation in AECOPD T. Welte (Hannover, Germany)	1634
17:50	New options for prevention of AECOPD: late-breaking clinical study results from OM-85 (Broncho-Vaxom) D. Olivieri (Parma, Italy)	1635
18:20	State-of-the-art COPD patient management strategies for daily practice in 2011 and beyond J. Wedzicha (London, United Kingdom)	1636
18:50	Consensus or contentious: implications roundtable and audience Q&A H. Lode (Berlin, Germany)	1637
19:10	Chairman's conclusions H. Lode (Berlin, Germany)	1638

## ROOM G109

## SESSION 198

07:00 - 08:15

**Morning Seminar: Extending bronchial challenge testing in the lab****Chair: V. Moore (Birmingham, United Kingdom)**

07:00	Introduction from the chair V. Moore (Birmingham, United Kingdom)	1643
07:10	The role of challenge testing in aspirin hypersensitivity A. Szczeklik (Cracow, Poland)	1644
07:35	Bronchial challenge testing in athletes: exercise, eucapnic hyperventilation or mannitol? B. Dahlen (Stockholm, Sweden)	1645
08:00	Discussion	

## ROOM G110

## SESSION 199

07:00 - 08:15

**Morning Seminar: Interpretation of sleep studies: problem areas****Chair: S. Andreas (Immenhausen, Germany)**

07:00	Introduction from the chair S. Andreas (Immenhausen, Germany)	1647
07:10	Diagnostic sleep studies in sleep apnoea with comorbidity J. Verbraecken (Antwerp, Belgium)	1648
07:35	Monitoring of treatment success K. E. Bloch (Zurich, Switzerland)	1649
08:00	Discussion	

## ROOM 7.1

## SESSION 207

08:30 - 08:50

**ERS Award for Rare Pulmonary Disease Ceremony (supported by GlaxoSmithKline)**

08:30	Introduction of ERS Award for Rare Pulmonary Disease V. Cottin (Lyon, France)	1651
08:35	2011 Awardee for Rare Pulmonary Disease B. Trapnell (Cincinnati, United States of America)	1652

## FOLLOWED BY

08:50 - 10:30

**“Clinical Grand Round - an interactive session”**

**Aims:** This Grand Round will discuss important topics within general pulmonology practice by showing four interesting cases with distinct problems of diagnosis and treatment. The case presentations, given by experts, will follow an interactive format and include an update of the most recent literature.

**Target audience:** Clinicians and trainees interested in clinical practice and in the clinical reasoning process in an up-to-date methodology.

**Chairs: V. Cottin (Lyon, France), V. Poletti (Forli, Italy)**

08:50	A 65-year-old woman with lung mass and pleural effusion K. Antoniou (Heraklion, Greece)	1653
09:15	A 61-year-old gentleman with dyspnoea and orthopnoea, a left posterolateral neck pain and a weak shoulder T. Similowski (Paris, France)	1654
09:40	Reversible dyspnoea in alpha1-antitrypsin deficiency C. Strange (Charleston, United States of America)	1655
10:05	A 60-year-old man with worsening dyspnoea and dry cough C. Vancheri (Catania, Italy)	1656

## AUDITORIUM

## SESSION 208

08:30 - 10:30

**Symposium: The non-pharmacological management of COPD exacerbations**

**Aims:** The aims of this symposium are to:

- understand the non-pharmacological management of COPD exacerbations across lines of healthcare;
- increase the attention for the non-respiratory consequences and their treatment (muscle dysfunction and comorbidity).

**Target audience:** Clinicians in all lines of healthcare, physiotherapists, nurses and legislators.

**Chairs: T. Troosters (Leuven, Belgium), M. A. Spruit (Horn, The Netherlands)**

08:30	Assessment of exacerbations: moving the field forward using patient reported outcome tools N. Kline Leidy (Bethesda, United States of America)	1657
09:00	Chest physiotherapy during exacerbations: is there an added value? J. Cross (Norwich, United Kingdom)	1658
09:30	Rehabilitation: the sooner the better? J. Seymour (London, United Kingdom)	1659

## MONDAY SEPTEMBER 26

10:00 Assessment and treatment of comorbidity: what efforts pay off?  
W. Janssens (Leuven, Belgium) 1660

## INFECTIO

## ROOM 7.2

## SESSION 209

08:30 - 10:30

### Symposium: ERS/ESCMID Guidelines "Management of lower respiratory tract infections: scores, biomarkers and beyond"

**Aims:** During this session, the "ERS/ESCMID Guidelines for the Management of Adult Lower Respiratory Tract Infections III" will be presented. The audience will learn about how to choose and use clinical scoring systems, which biomarkers help to better define choice of treatment and prognosis, and what current guidelines put forward and what future guidelines will recommend for the management of lower respiratory tract infections.

**Target audience:** Clinicians, specialists and GPs.

**Chairs:** G. Rohde (Maastricht, The Netherlands), M. Miravittles (Barcelona, Spain)

- 08:30 Clinical scoring systems for lower respiratory tract infections  
R. Menendez (Valencia, Spain) 1661
- 09:00 Aetiological and prognostic biomarkers in lower respiratory tract infections  
B. Muller (Basel, Switzerland) 1662
- 09:30 The current ERS guidelines for management of lower respiratory tract infections  
M. Woodhead (Manchester, United Kingdom) 1663
- 10:00 Looking forward: the next European lower respiratory tract infections guidelines  
S. Ewig (Bochum, Germany) 1664

## ONCOLOGY

## ELICIUM 2

## SESSION 210

08:30 - 10:30

### Symposium: Diagnosis and management of mediastinal tumours

**Aims:** Participants will be offered an overview on the diagnostic work-up and the management of these tumours.

**Target audience:** Pulmonary clinicians, including trainees, thoracic surgeons and oncologists.

**Chairs:** B. Grigoriu (Iasi, Romania), A.-P. Meert (Brussels, Belgium)

- 08:30 Rare mediastinal tumours: a spectrum of the disease and potential future directions  
N. Girard (Bron, France) 1665
- 09:00 Thoracic imaging for the assessment of mediastinal masses  
T. Franquet (Barcelona, Spain) 1666
- 09:30 Endoscopic ultrasound of diagnosis of mediastinal tumours  
R. Eberhardt (Heidelberg, Germany) 1667
- 10:00 Management of superior vena cava syndrome: current status  
R. Uberoi (Oxford, United Kingdom) 1668

## PAEDIATRIC

## ROOM 5.1

## SESSION 211

08:30 - 10:30

### Symposium: End-stage lung disease in children

**Aims:** This symposium is primarily clinical and aims to give attendees a state-of-the-art update on the investigation and management of these difficult clinical scenarios.

**Target audience:** Paediatricians, cystic fibrosis physicians, intensivists and neonatologists, transplant physicians and surgeons, paediatric psychologists and nurses.

**Chairs:** A. Fisher (Newcastle, United Kingdom), R. Ross-Russell (Cambridge, United Kingdom)

- 08:30 End-stage cystic fibrosis: what to measure and what to try?  
F. Ratjen (Toronto, Canada) 1669
- 09:00 Options for technological support  
B. Fauroux (Paris, France) 1670
- 09:30 Lung transplantation in children  
P. Aurora (London, United Kingdom) 1671
- 10:00 When everything fails: how should the end of life be managed?  
W. Robinson (Nashville, United States of America) 1672

## BASIC

## ROOM 4.1

## SESSION 212

08:30 - 10:30

### Symposium: The unfolding story of endoplasmic reticulum stress signalling in lung disease

**Aims:** The aims of this session are to provide a set of comprehensive, thought-provoking and interesting presentations on the topic of endoplasmic reticulum (ER) stress. Attendees will be given a broad introduction to the topic by an internationally renowned expert in the area describing the causes, mechanisms and outcomes of ER stress. This will be followed by presentations describing new advances in our understanding of ER stress responses and how they can contribute to the pathogenesis of COPD and cystic fibrosis. Finally, there will be a presentation on the targeting of ER stress for lung cancer treatment.

**Target audience:** Basic scientists, clinician scientists and clinicians with specific interests in COPD, cystic fibrosis and lung cancer therapeutics. This session will be of interest to members of Assemblies 1, 3, 5 and 11 and Group 7.3.

**Chairs: P. Hiemstra (Leiden, The Netherlands), C. Greene (Dublin, Ireland)**

- 08:30 The unfolded protein response in lung disease  
S. Marciniak (Cambridge, United Kingdom) 1673
- 09:00 Endoplasmic reticulum stress in COPD: implications for alpha1-antitrypsin deficiency  
T. P. Carroll (Dublin, Ireland) 1674
- 09:30 Endoplasmic reticulum stress and inflammatory responses relevant to cystic fibrosis airways  
C. Ribeiro (Chapel Hill, United States of America) 1675
- 10:00 Targeting the endoplasmic reticulum stress response as an anticancer strategy  
R. Jaeger (Galway, Ireland) 1676

## ELICIUM 1

## SESSION 213

08:30 - 10:30

**Oral Presentation: Understanding the burden of chronic respiratory diseases: what decision makers need to know**

**Chairs: R. Breyer-Kohansal (Vienna, Austria), J. Lopez-Campos (Seville, Spain)**

- 08:30 Spirometric screening and survey of knowledge on COPD and smoking in Spanish political representatives: The ConSePOC study  
J. B. Soriano, F. García-Rio, M. Miravittles, M. Calle-Rubio, A. Jovell, E. Fernandez, J. M. Rodríguez Gonzalez-Moro, M. C. Montero, M. A. Planchuelo, J. Casafont, J. Ruiz-Manzano, J. Ancochea (Bunyola, Madrid, Barcelona, A Coruña, Spain) 1677
- 08:45 Improving and redesigning chronic obstructive pulmonary disease services: A systematic improvement approach  
P. Duncan, C. Thompson, C. Blackaby, Z. Lord, O. Okosi, H. Wall, A. Porter, K. Holton, A. Moger, M. Kearney, R. Winter, S. L. Hill (Leicester, London, United Kingdom) 1678
- 09:00 The effect of early stages of COPD on resource use and health-care costs  
P. Menn, J. Heinrich, R. Huber, R. Jörres, J. Jürgen, S. Karrasch, A. Peters, H. Schulz, R. Holle (Neuherberg, Muenchen, Germany) 1679
- 09:15 The impact of a respiratory in-reach service into the emergency assessment unit (EAU) on treatment, length of stay, and re-admission rates  
F. Johnstone, L. Dowson (Wolverhampton, United Kingdom) 1680
- 09:30 The economic burden of COPD in a Danish municipality  
N. Maltbæk, J. Pagh Maltbæk, M. Nyhus Andreassen (Roskilde, Copenhagen, Denmark) 1681
- 09:45 Cost-effectiveness of tiotropium versus salmeterol: A trial-based analysis followed by a model-based extrapolation  
M. Hoogendoorn, M. Al, J. M. Graf von der Schulenburg, D. Bowles, B. Monz, H. Schmidt, J. Lungershausen, M. Rutten-van Molken (Rotterdam, The Netherlands; Hanover, Bielefeld, Ingelheim, Germany) 1682
- 10:00 Clinical and pharmacy-economical reasonability of the choice of fixed combination of fluticasone/salmeterol in the curing of bronchial asthma in the country with limited financing of the public health  
D. Ruzanov, E. Davidovskaya, T. Baranovskaya (Gomel, Minsk, Republic of Belarus) 1683

MONDAY  
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## FORUM

## SESSION 214

08:30 - 10:30

**Oral Presentation: Mechanisms of acute lung injury and mesenchymal cell treatment**

**Chairs: A. Artigas (Sabadell, Spain), S. Orfanos (Haidari, Greece)**

- 08:30 Late-breaking abstract: Soluble immune complex exaggerates LPS-Induced acute lung injury (ALI) by transfusion – A novel mechanism of transfusion-related acute lung injury (TRALI)  
M. C. Chan, C. L. Wu (Taichung, Taiwan) 1684
- 08:45 A haplotype of the endothelial protein C receptor gene is associated with reduced risk of acute lung injury in critically ill patients  
A. Vassiliou, N. Maniatis, A. Kotanidou, E. Letsiou, M. Kallergi, F. Karystinaki, C. Sotiropoulou, K. Glynos, I. Dimopoulou, C. Roussos, A. Armaganidis, S. Orfanos (Athens, Greece) 1685
- 09:00 Diagnostic value of Von Willebrand factor (VWF) in patients suffering from respiratory distress  
R. El Wahsh, S. Amin, E. Essa (Shebin El Kom, Egypt) 1686
- 09:15 Stimulation of NOD1 induces RIP2, TAK1 and p38 MAPK dependent pro-inflammatory signalling in human lung microvascular endothelial cells  
T. L. Gatheral, L. Moreno, D. M. Reed, R. Badiger, L. K. Bailey, N. Galloway-Phillipps, J. A. Mitchell (London, United Kingdom) 1687
- 09:30 Lactate, pH and angiogenic markers in exhaled breath condensate correlate with outcome and disease severity in patients with acute lung injury  
C. Gessner, B. Malmann, H. Kuhn, P. Ruschpler, L. Engelmann, S. Hammerschmidt, U. Sack, H. Wirtz (Leipzig, Germany) 1688
- 09:45 Which is the best source of mesenchymal cells to treat acute lung injury?  
J. Silva, A. Paz, D. Xisto, M. Lopes-Pacheco, E. Bandeira, M. Vasconcellos, V. Capelozzi, M. Morales, P. Pelosi, E. Cirne-Lima, P. Rocco (Rio de Janeiro, Porto Alegre, São Paulo, Brazil; Genova, Italy) 1689

INTENSIVE CARE

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## MONDAY SEPTEMBER 26

- 10:00 Mesenchymal stem cells prevent early inflammation in a rat model of ventilator induced lung injury  
L. Chimenti, T. Luque, M. Bonsignore, D. Navajas, R. Farré (Barcelona, Bunyola, Spain; Palermo, Italy) 1690
- 10:15 Impact of bone marrow mononuclear cell administration route on lung and distal organs in pulmonary and extrapulmonary acute lung injury  
I. Araujo, S. Abreu, J. Silva, T. Maron-Gutierrez, M. Oliveira, E. Assis, H. Faria-Neto, V. Capelozzi, M. Morales, P. Pelosi, P. Rocco (Rio de Janeiro, São Paulo, Brazil; Genova, Italy) 1691

## ROOM 5.2

## SESSION 215

08:30 - 10:30

## Oral Presentation: Clinical application of exhaled biomarkers

Chairs: I. Horvath (Budapest, Hungary), P. J. Sterk (Amsterdam, The Netherlands)

- 08:30 Exhaled molecular patterns change after experimental rhinovirus 16 infection in asthma  
N. Fens, K. F. van der Sluijs, M. A. van de Pol, R. Lutter, S. L. Johnston, P. J. Sterk (Amsterdam, The Netherlands; London, United Kingdom) 1692
- 08:45 Increased exhaled breath condensate cysteinyl leukotriene concentration in exercise-induced bronchoconstriction  
A. Bikov, R. Gajdocsi, E. Huszar, Z. Lazar, B. Antus, G. Losonczy, I. Horvath (Budapest, Hungary) 1693
- 09:00 Exhaled nitric oxide may predict future benefit in patients with poorly controlled asthma  
V. Tudorache, C. Babiciu, C. Oancea, M. Marc, E. Tudorache, D. Muntean, O. Fira-Mladinescu (Timisoara, Romania) 1694
- 09:15 Exhaled nitric oxide is better related to bronchial responsiveness and eosinophil activation in children than adults with asthma  
A. Malinovschi, C. Janson, P. Kalm-Stephens, K. Nisser, L. Nordvall, K. Alving (Uppsala, Sweden) 1695
- 09:30 Non-invasive biomarkers applied in a case-control study  
G. Schoeters, K. Bloemen, R. Van Den Heuvel, G. Koppen, V. Nelen, E. Witters, K. Desager (Mol, Antwerp, Belgium) 1696
- 09:45 Pattern of exhaled volatile organic compounds is altered in children with obstructive sleep apnea  
Z. Lázár, A. Bikov, P. Benedek, L. Kunos, I. Horváth (Budapest, Hungary) 1697
- 10:00 Increased exhaled nitric oxide predicts new-onset rhinitis in asymptomatic children  
A. Malinovschi, C. Janson, P. Kalm-Stephens, K. Alving, L. Nordvall (Uppsala, Sweden) 1698
- 10:15 Differentiation of chronic obstructive pulmonary disease (COPD) including lung cancer from healthy control group by breath analysis using ion mobility spectrometry  
M. Westhoff, P. Litterst, S. Maddula, J. I. Baumbach (Hemer, Saarbrücken, Germany) 1699

## ROOM 3.1

## SESSION 216

08:30 - 10:30

## Oral Presentation: Molecular pathology and functional genomics of lung disease

Chairs: M. Skrzypski (Sopot, Poland), H. Popper (Graz, Austria)

- 08:30 Late-breaking abstract: The TERT-CLPTM1L locus for lung cancer predisposes to bronchial obstruction and emphysema  
E. Wauters, D. Smeets, J. Coolen, J. Verschakelen, P. De Leyn, M. Decramer, ERS President 2011, J. Vansteenkiste, W. Janssens, D. Lambrechts (Leuven, Belgium) 1700
- 08:45 Late-breaking abstract: Possible association between vitamin D receptor SNP FokI and treatment response in asthmatic children  
H. Einisman, M. L. Reyes, M. Lopez-Lastra, J. Angulo, M. S. Caussade, A. Moya, J. Cerda, J. A. Castro-Rodriguez (Santiago, Chile) 1701
- 09:00 The TNF-derived TIP peptide reduces lung dysfunction in experimental influenza A virus infection  
R. Lucas, G. Yang, S. Sridhar, Z. Traylor, H. Hossain, B. Fischer, T. Chakraborty, I. Davis (Augusta, Columbus, United States of America; Giessen, Germany; Vienna, Austria) 1702
- 09:15 Oxidative stress during high altitude expedition and its influence on vessel tone-modifying mediators  
J. Pichler Hefti, D. Sonntag, U. Hefti, T. M. Merz, K. Weinberger, T. Geiser, A. R. Huber (Bern, Langenthal, Aarau, Switzerland; Innsbruck, Austria) 1703
- 09:30 Systemic upregulation of neutrophil  $\alpha$ -defensins and serine proteases in neutrophilic asthma  
K. Baines, J. Simpson, L. Wood, R. Scott, P. Gibson (Newcastle, Australia) 1704
- 09:45 Dysregulated miRNAs and their predicted mRNA targets in emphysematous lungs  
S. Savarimuthu Francis, M. Davidson, R. Bowman, N. Hayward, K. Fong, I. Yang (Brisbane, Australia) 1705
- 10:00 Differentiation between squamous cell carcinoma (SCC) and adenocarcinoma (AC): Expression of immunohistochemical (IHC) markers in a tissue microarray (TMA) of >1000 NSCLC  
P. A. Schnabel, E. Herpel, T. Muley, H. Hoffmann, P. Schirmacher, A. Warth (Heidelberg, Germany) 1706
- 10:15 DNA copy number alterations in squamous metaplastic lesions predict lung cancer  
R. van Boerdonk, T. Sutedia, P. Snijders, E. Reinen, S. Wilting, M. van de Wiel, F. Thunnissen, S. Duin, C. Kooi, B. Yistra, C. Meijer, G. Meijer, K. Grünberg, J. Daniels, P. Postmus, E. Smit, D. Heideman (Amsterdam, The Netherlands) 1707



## ROOM 3.2

## SESSION 217

08:30 - 10:30

## Oral Presentation: Cardio-pulmonary interactions

Chairs: J. Neder (São Paulo, Brazil), G. Hedenstierna (Uppsala, Sweden)

- 08:30 Late-breaking abstract: The diaphragm and abdominal muscles act on the abdomen to displace blood to the extremities during exercise  
B. Uva, D. Bovio, A. Aliverti (Milano, Italy) 1708
- 08:45 Right ventricular contractility at rest and during exercise in COPD  
P. Trip, B. Boerrigter, T. Kind, H. J. Bogaard, N. Westerhof, A. Vonk Noordegraaf (Amsterdam, The Netherlands; Richmond, United States of America) 1709
- 09:00 Right ventricular output in chronic obstructive pulmonary disease during expiration is impaired by reduced venous return  
B. Boerrigter, P. Trip, H. J. Bogaard, H. Groepenhoff, F. Oosterveer, N. Westerhof, A. Vonk Noordegraaf (Amsterdam, The Netherlands; Richmond, United States of America) 1710
- 09:15 Effects of hyperoxia and helium-hyperoxia on the cardiocirculatory responses to incremental exercise in hypoxaemic patients with advanced COPD  
M. Nunes, F. Queiroga-Jr, E. Meda, G. Chiappa, M. C. Machado, L. E. Nery, J. A. Neder (São Paulo, Brazil) 1711
- 09:30 Predictors of improvement in peak exercise capacity with helium-hyperoxia in severely-impaired COPD patients under long-term oxygen therapy  
M. Nunes, F. Queiroga-Jr, E. Meda, G. Chiappa, M. C. Machado, L. E. Nery, J. A. Neder (São Paulo, Brazil) 1712
- 09:45 Tissue deoxygenation kinetics induced by acute hypoxic exposure at rest in humans  
S. Verges, T. Rupp, M. Jubeau, G. Millet, T. Lety, V. Bricout, B. Wuyam, S. Perrey (Grenoble, St. Etienne, Montpellier, France) 1713
- 10:00 Blood shift during cough in healthy subjects  
A. LoMauro, A. Pedotti, P. T. Macklem, A. Aliverti (Milan, Italy; Montreal, Canada) 1714
- 10:15 Regional chest wall volume variations in heart failure patients during inspiratory muscle training  
D. Brandao, S. Lage, J. Nascimento, Jr., L. Carvalho, F. Vieira, S. Marinho Martins, L. Alcoforado, R. Britto, V. Parreira, G. Fregonezi, A. Aliverti, A. Dornelas de Andrade (Recife, Belo Horizonte, Natal, Brazil; Milan, Italy) 1715

## ROOM 4.2

## SESSION 218

08:30 - 10:30

## Oral Presentation: Viral respiratory infections in children: causes and consequences

Chairs: C. O Callaghan (Leicester, United Kingdom), Z. Zivkovic (Belgrade, Republic of Serbia)

- 08:30 Effect of inhaled hypertonic saline solution to treat infants hospitalized with viral bronchiolitis  
J. Teunissen, A. H. J. Hochs, A. A. P. Vaessen-Verberne, A. L. M. Boehmer, C. C. J. M. Smeets, H. J. L. Brackel, R. van Gent, J. Wesseling, R. de Moor, P. P. Rosias, S. Potgieter, R. P. Droog, J. J. E. Hendriks, D. Logtens-Stevens, M. L. G. Janssen-Heijnen, B. F. Loza (Venlo, The Netherlands) 1716
- 08:45 7% hypertonic saline and hyaluronic acid and in the treatment of infants mild-moderate bronchiolitis  
R. Nenna, S. Papasso, M. Battaglia, D. De Angelis, L. Petrarca, D. Felder, S. Salvadei, R. Berardi, M. Roberti, P. Papoff, C. Moretti, F. Midulla (Rome, Italy) 1717
- 09:00 Evaluating the risk of lower respiratory tract infection (LRTI) hospitalizations due to respiratory distress syndrome (RDS) in late preterm  
K. Buesch, H. Khong, K. Gooch (Ludwigshafen, Germany; Chicago, United States of America) 1718
- 09:15 Rhinovirus lower respiratory tract infections and healthcare utilisation of prematurely born infants during infancy  
S. Drysdale, M. Alcazar, T. Wilson, S. Broughton, G. F. Rafferty, M. Smith, M. Zuckerman, S. Johnston, A. Greenough (London, United Kingdom) 1719
- 09:30 Human respiratory syncytial virus infection *in vivo* and *in vitro* induces expression of the B cell differentiation factor BAFF  
P. McNamara, A. Fonceca, D. Howarth, R. Trinick, J. Cummerson, R. Smyth, B. Flanagan (Liverpool, United Kingdom) 1720
- 09:45 Prenatal exposure to PCBs and dioxins is associated with increased risk of wheeze and infectious diseases in 2-year old children  
S. B. Stølevik, U. C. Nygaard, E. Namork, H. E. Kvaem, H. M. Meltzer, J. Alexander, J. H. van Delft, H. van Loveren, M. Løvik, B. Granum (Oslo, Norway; Maastricht, The Netherlands) 1721
- 10:00 Airborne transmission of respiratory syncytial virus (RSV) infection  
H. Kulkarni, C. Smith, R. Hirst, N. Baker, A. Easton, C. O'Callaghan (Leicester, Coventry, United Kingdom) 1722

## MONDAY SEPTEMBER 26

EPIDEMIOLOGY/  
ENVIRONMENT

## EMERALD

## SESSION 219

08:30 - 10:30

## Oral Presentation: Indoor hazards and respiratory disease: irritants and allergens

Chairs: J. Zock (Barcelona, Spain), D. Heederik (Utrecht, The Netherlands)

- 08:30 Domestic use of hypochlorite bleach and respiratory infections in children  
J. P. Zock, L. Casas, A. Borràs-Santos, J. Jacobs, E. Krop, D. Heederik, A. Hyvärinen, M. Täubel (Barcelona, Spain; Utrecht, The Netherlands; Kuopio, Finland) 1723
- 08:45 FeNO in adults in relation to cleaning sprays and other particle generating activities in homes in Scania, Sweden  
G. Wieslander, D. Norbäck (Uppsala, Sweden) 1724
- 09:00 Endotoxin levels in primary schools and homes of Dutch school children  
J. Jacobs, E. Krop, D. Heederik (Utrecht, The Netherlands) 1725
- 09:15 The household dust bio-environment and lung function in adult asthma  
P. D. Blanc, S. Van Dyken, S. Vesper, P. Quinlan, L. Trupin, C. Iribarren, P. P. Katz, E. H. Yelin, M. Cisternas, J. R. Balmes (San Francisco, Cincinnati, Oakland, Carlsbad, United States of America) 1726
- 09:30 Cat, dog and horse allergens in day care centres in Uppsala, Sweden, associations with FeNO and dyspnea  
D. Norbäck, N. Fabjan, G. Cai, I. Kreft, E. Lampa, G. Wieslander (Uppsala, Sweden; Ljubljana, Slovenia) 1727
- 09:45 High indoor microbial levels are associated with reduced Th1-cytokine secretion capacity in infancy  
J. Pekkanen, M. Lappalainen, A. Hyvärinen, H. Rintala, H. Renz, P. Pfefferle, A. Nevalainen, M. Roponen, M. R. Hirvonen (Kuopio, Finland; Marburg, Germany) 1728

EPIDEMIOLOGY/  
ENVIRONMENT/  
BASIC

## ROOM D203-204

## SESSION 220

08:30 - 10:30

## Oral Presentation: Genes, environment and obstruction

Chairs: H. M. Boezen (Groningen, The Netherlands), F. Kauffmann (Villejuif, France)

- 08:30 Late-breaking abstract: GST omega gene polymorphisms, environmental tobacco smoke (ETS) and lung function in a general Dutch population cohort  
K. de Jong, H. M. Boezen, D. S. Postma, J. M. Vonk (Groningen, The Netherlands) 1729
- 08:45 Genetic overlap of airway obstruction and emphysema  
J. Smolonska, P. Zanen, H. J. M. Groen, A. E. Dijkstra, D. S. Postma, M. Oudkerk, B. J. de Hoop, B. van Ginneken, W. Mali, J. W. Lammers, C. Wijmenga, H. M. Boezen (Groningen, Utrecht, The Netherlands) 1730
- 09:00 Susceptibility to chronic mucus hypersecretion: A genome-wide association study  
A. Dijkstra, J. Smolonska, M. Boezen, P. Zanen, R. van Klaveren, M. Owsijewitsch, E. Nizankowska, C. Wijmenga, H. Groen, D. Postma (Groningen, Utrecht, Rotterdam, The Netherlands; Heidelberg, Germany; Cracow, Poland) 1731
- 09:15 Common variant of gasdermin-like gene, fetal and early life smoke exposure and the risk of asthma-like symptoms in preschool children  
R. van der Valk, L. Duijts, S. Willemsen, A. Hofman, H. Moll, V. Jaddoe, J. de Jongste (Rotterdam, The Netherlands) 1732
- 09:30 Interactions between current tobacco smoke exposure and GSTP1 on lung health outcomes at 6, 12 and 18 years  
J. Murdzoska, C. Hayden, S. K. Khoo, L. Landau, S. Young, J. Goldblatt, G. Zhang, D. Cox, D. Mullane, S. Turner, P. Le Souef, S. Devadason (Perth, Australia; Cork, Ireland; Royal Aberdeen, United Kingdom) 1733
- 09:45 Association between SNPs in *NR3C1* and *NR3C2* gene and asthma  
N. Vink, D. Postma, J. Rosmalen, M. Boezen (Groningen, The Netherlands) 1734
- 10:00 Detection of specific mitochondrial RNA gene mutations in asthma patients: Contribution of haplogroup U  
F. Malli, E. Zifa, K. Gourgoulanis, Z. Mamuris, Z. Daniil (Larissa, Greece) 1735
- 10:15 Common functional variants of MMP-1, MMP-3, ACE-1 and 5-HTT genes are associated with distinct symptoms in COPD  
N. Kuzubova, A. Chukhlovin, E. Morosova, A. Totolian, O. Titova (Saint-Petersburg, Russian Federation; , Rwanda) 1736

## SLEEP

## ROOM G102-103

## SESSION 221

08:30 - 10:30

## Poster Discussion: Obstructive sleep apnoea: the heart and the brain

Chairs: S. Andreas (Immenhausen, Germany), J. A. Hedner (Gothenburg, Sweden)

- P1737 Transvenous phrenic nerve stimulation improves Cheyne-Stokes respiration in patients with chronic heart failure  
X. Zhang, N. Ding, S. Zhang, B. Yang (Nanjing, China)
- P1738 Heart rate turbulence: In patients with obstructive sleep apnea without coronary artery diseases  
O. T. Dogan, A. Erdem, K. Epozturk, O. C. Yontar, I. Akkurt (Sivas, Turkey)
- P1739 Effect of time on test on driving simulator performance in patients with obstructive sleep apnoea (OSAS)  
D. Ghosh, S. L. Jamson, P. D. Baxter, M. W. Elliott (Leeds, United Kingdom)
- P1740 Neurocognitive disorders in children with sleep-disordered breathing  
A. Tabarrini, M. C. Paolino, L. Papini, R. Castaldo, F. Biagiarelli, R. Bruschi, M. Forlani, M. P. Villa (Rome, Italy)

- P1741 Mean platelet volume in obstructive sleep apnea patients. Another link to cardiovascular disease?  
P. Steiropoulos, E. Nena, P. Zikidou, P. Zarogoulidis, N. Papanas, K. Archontogeorgis, T. Gkioka, E. Pitta, A. Tzouvelekis, S. Anevllavis, M. Froudarakis, D. Bouros (Alexandroupolis, Greece)
- P1742 Prevalence and predictors of arrhythmia in patients with obstructive sleep apnea (OSA)  
A. BaHamman, N. Alasousi, M. Sharif, A. Hesi (Riyadh, Saudi Arabia)
- P1743 Effects of auto-servo ventilation on cardiovascular function in patients with congestive heart failure and sleep-disordered breathing – A multicenter randomised controlled trial  
M. Artz, F. Series, K. Lewis, P. Escourrou, R. Obermeier, V. Kehl, M. Pfeifer (Regensburg, Munich, Donaustauf, Germany; Quebec, Canada; Llanelli, United Kingdom; Clamart, France)
- P1744 Effect of auto servo-ventilation (ASV) and continuous positive airway pressure (CPAP) on B-type natriuretic peptide (NT-proBNP) in patients with co-existing obstructive (OSA) and central sleep apnea (CSA) in heart failure (HF)  
W. Randerath, G. Nothofer, N. Anduleit, M. Treml, C. Priegnitz, W. Galetke (Solingen, Germany)
- P1745 Adaptive servoventilation reduces the risk of malignant arrhythmic events in patients with congestive heart failure and Cheyne-Stokes respiration  
T. Bitter, N. Westerheide, G. Nölker, K. J. Gutleben, J. Vogt, J. Heintze, D. Horstkotte, J. Niedermeyer, O. Oldenburg (Bad Oeynhausen, Bielefeld, Germany)
- P1746 French national prospective registry of sleep apnea (RESAS): Determinants of hypertension and cardiac failure in 3093 obese patients  
J. L. Pepin, R. Tamisier, P. Levy, M. Sapene, A. Vicente, J. F. Timsit, G. Huchon (Grenoble, Bordeaux, Paris, La Tronche, France)
- P1747 Neurocognitive profile of children with congenital central hypoventilation syndrome (CCHS)  
A. Wallet, J. Save, I. Husson, H. Trang (Paris, France)
- P1748 The use of occlusal splint can change autonomic cardiac modulation in bruxers?  
I. Aguiar, F. S. Leitao Filho, R. Hirata, L. Sampaio, N. Faria Junior, S. Nacif, L. V. Oliveira, L. C. Giannasi (São Paulo, Fortaleza, Brazil)
- P1749 SAHS and stroke. CPAP compliance and new stroke events  
B. Arias Arcos, A. Hernando Sanz, F. Gonzalez Torralba, S. De la Torre Carazo, T. Díaz Cambriles, M. J. Díaz de Atauri Rodriguez de los Ríos (Madrid, Spain)
- P1750 Gender-dependent characteristics of sleep-disordered breathing in chronic heart failure  
H. Woehrl, G. Weinreich, M. Arzt, O. Oldenburg, K. Wegscheider, E. Erdmann, H. Teschler (Martinsried, Essen, Regensburg, Cologne, Hamburg, Bad Oeynhausen, Germany)
- P1751 The impact of obstructive sleep apnea syndrome on cardiovascular system in children  
L. Damianidou, M. Eboriadou, A. Giannopoulos, K. Haidopoulou, I. Tzimou, I. Tsanakas, F. Athanasiadou (Thessaloniki, Greece)
- P1752 Effect of disease severity on heart rate recovery following laboratory and field exercise testing in patients with obstructive sleep apnea (OSA): A comparative study  
K. Cholidou, I. Vogiatzis, V. Andrianopoulos, I. Kostakis, E. Markozannes, K. Kyrkou, M. Alchanatis (Athens, Greece)
- P1753 Impact of obstructive sleep apnea on diastolic function  
S. Andreas, L. Lüthje, R. Wachter, F. Edelmann, G. Hasenfuss, B. Pieske (Immenhausen, Krs Kassel, Göttingen, Germany)
- P1754 Early cardiovascular disease markers in “healthy” OSA patients are correlated with sympathetic activity  
D. Lacedonia, R. Tamisier, J. P. Baguet, J. L. Pepin, P. Levy (La Tronche, Grenoble, France; Foggia, Italy)

ROOM G104-105

SESSION 222

08:30 - 10:30

**Poster Discussion: Comorbidities and impact on society of asthma and COPD****Chairs: D. Jarvis (London, United Kingdom), E. Lindberg (Uppsala, Sweden)**

- P1755 Development and validation of a new comorbidity index for COPD  
M. Divo, C. Cote, J. P. De Torres, C. Casanova, J. M. Marin, V. Pinto-Plata, J. Zulueta, C. Cabrera, J. Zagaceta, B. Celli (Boston, Bay Pines, United States of America; Pamplona, Zaragoza, Tenerife, Palmas de Gran Canaria, Spain)
- P1756 Association between lung function and subclinical atherosclerosis in overweight subjects  
W. Thijs, K. B. Gast, R. Mutsert, F. H. Krouwels, C. F. Melissant, P. S. Hiemstra, F. R. Rosendaal, S. Middeldorp, K. F. Rabe (Leiden, Hoofddorp, Amsterdam, The Netherlands; Grosshansdorf, Germany)
- P1757 Impact of pulmonary function on cardiovascular disease events in persons with metabolic syndrome and diabetes  
H. Lee, J. Lee, V. Lopez, G. Barr, M. Carnethon, D. Yanez, N. Wong (Irvine, New York, Chicago, Seattle, United States of America)
- P1758 Fatigue in COPD and the impact of heart disease comorbidity: A population-based study  
C. Stridsman, H. Müllerova, L. Skär, A. Lindberg (Luleå, Umeå, Sweden; Stockley Park, United Kingdom)
- P1759 Reduced lung function is an independent risk factor for the development of impaired glucose tolerance?  
T. Yamane, A. Yokoyama, N. Shiota, H. Ohnishi, N. Hattori, N. Kohno (Nangoku City, Hiroshima City, Japan)

MONDAY  
26

## MONDAY SEPTEMBER 26

- P1760 Lung function, bronchial hyperresponsiveness (BHR) and metabolic risk factors in adults: Preliminary results from the gene environment interaction in respiratory disease (GEIRD) survey  
L. Cazzoletti, G. Verlato, S. Accordini, C. Bombieri, V. Cappa, P. Ferrari, K. Schenk, A. Marcon, M. Olivieri, E. Zanolin, R. de Marco, M. Ferrari (Verona, Italy)
- P1761 The association between obesity, YKL-40 levels and adult asthma  
T. N. Wang, Y. X. Chen, M. S. Huang, T. Y. Yuan (Kaohsiung, Taiwan)
- P1762 Atopic status affects association between bronchial hyperresponsiveness and asthma symptoms in females  
T. H. Malling, T. Sigsgaard, V. Schlünssen, O. F. Pedersen, O. Omland, The RAV Group (Aalborg, Aarhus, Denmark)
- P1763 Asthma and caries: A systematic review and meta-analysis  
M. S. Jaakkola, S. Alavaikko, L. Tjaderhane, J. J. K. Jaakkola (Oulu, Finland)
- P1764 Are systemic inflammatory markers predictive of loss of lean body mass in COPD patients?  
T. M. L. Eagan, E. Gabazza, C. D'Alessandro-Gabazza, J. A. Hardie, P. S. Bakke, P. D. Wagner (Bergen, Norway; Tsu City, Japan; La Jolla, United States of America)
- P1765 Pulmonary tuberculosis and forced vital capacity (FVC): Results from the BOLD study  
A. Jithoo, P. Burney, E. Bateman, S. Coton, B. Kato, D. Mannino, A. S. Buist (London, United Kingdom; Cape Town, South Africa; Portland, Lexington, United States of America)
- P1766 Predictors of  $SpO_2 \leq 95\%$  in a cross-sectional population based survey  
M. L. Vold, H. Melbye, U. Aasebø (Tromsø, Norway)
- P1767 Short-term variation in air pollution triggers acute rejection after lung transplantation  
H. Scheers, T. Nawrot, S. Verleden, R. Geenens, P. Hoet, F. Fierens, V. Erik, B. Nemery, D. Van Raemdonck, G. Verleden, B. Vanaudenaerde (Leuven, Diepenbeek, Brussels, Belgium)
- P1768 Health related quality of life and its effect on lung function  
M. Waatevik, A. Gulsvik, E. Omenaas, P. Bakke, A. Johannessen (Bergen, Norway)
- P1769 Health-related quality of life in subjects with respiratory diseases: Preliminary results from the GEIRD study  
V. Cappa, M. E. Zanolin, G. Pesce, M. Olivieri, M. Ferrari, S. Sembeni, R. de Marco (Verona, Italy)
- P1770 The costs of adult asthma in Denmark  
L. R. Skadhauge, D. Sherson, B. Jesper, S. Dahl, C. L. Hansen, O. Omland, T. Sigsgaard, H. V. Thomsen, G. Thomsen, J. Olsen (Esbjerg, Odense, Aalborg, Aarhus, Denmark)
- P1771 Socioeconomic position and use of drugs in chronic obstructive pulmonary disease (COPD): A population-based cohort study in Rome, Italy  
N. Agabiti, V. Belleudi, U. Kirchmayer, L. Bauleo, L. Pinnarelli, M. Arcà, M. Davoli (Rome, Italy)
- P1772 Examination of multiple emergency inpatient admissions for asthma in England from hospital episode statistics (HES) 2005-2009  
R. DiSantostefano, R. Baxter, L. Ishihara, H. Muellerova (Research Triangle Park, United States of America; Stockley Park, United Kingdom)

ROOM G106-107

SESSION 223

08:30 - 10:30

## Poster Discussion: Models of disease and drug actions

Chairs: I. M. Adcock (London, United Kingdom), Y. Riffo-Vasquez (London, United Kingdom)

- P1773 Inhaled budesonide induces corticosteroid-dependent gene expression in asthmatics: Validation in primary epithelial and airways smooth muscle cells  
R. Newton, E. King, C. Rider, C. Gwozd, N. Holden, J. Eddlestone, B. Zuraw, R. Leigh, P. O'Byrne, M. Kelly (Calgary, Hamilton, Canada; La Jolla, United States of America)
- P1774 Change in dilation effect of prednisone at the different stages of COPD  
N. Kuzubova, E. Lebedeva, A. Fedin (Saint-Petersburg, Russian Federation)
- P1775 Inhibition of glycogen synthase kinase 3beta reduces GC function in human monocytes via modulation of HDAC2 activity  
A. Ngkelo, L. Stevens, M. Yeadon, I. Kilty, I. Adcock, P. Kirkham (London, Sandwich, United Kingdom)
- P1776 Effects of beclomethasone dipropionate and formoterol in reducing oxidative stress induced by cigarette smoke extracts and IL-17  
A. Bonanno, L. Riccobono, S. La Grutta, A. M. Montalbano, G. D. Albano, V. Scafidi, R. Gagliardo, G. Nicolini, E. Ingrassia, M. Profita (Palermo, Italy; Biberach, Germany)
- P1777 Activated protein phosphatase PP2A by formoterol enhances nuclear translocation of glucocorticoid receptor induced by budesonide  
Y. Kobayashi, N. Mercado, A. Miller-Larsson, P. Barnes, K. Ito (London, United Kingdom; Lund, Sweden)
- P1778 Effect of fluticasone and formoterol combination therapy on airway remodeling  
M. Roth, J. Zhong, C. S'ng, M. Tamm (Basel, Switzerland)
- P1779 AZD3199: A potent and selective  $\beta_2$ -adrenergic receptor agonist with rapid onset of action  
A. Young, R. Austin, R. Bonnert, E. Cadogan, S. Connolly, P. Gardiner, S. Jordan, M. Lawson, P. Mutch, D. Nicholls, S. Paine, G. Pairaudeau, M. Stocks (Loughborough, United Kingdom)

- P1780 Oxidative stress-induced corticosteroid insensitivity is reversed by formoterol via inhibition of PI3K signalling in peripheral blood mononuclear cells from patients with COPD and severe asthma  
C. Rossios, Y. To, G. Osoata, M. Analeise, M. Ito, P. J. Barnes, K. Ito (London, United Kingdom)
- P1781 Endogenous PGE<sub>2</sub> contributes to antigen-induced contractions of guinea pig trachea  
J. Säfhölm, L. O. Cardell, S. E. Dahlén, M. Adner (Stockholm, Sweden)
- P1782 Fluticasone propionate inhaled 3 hours after an early allergic reaction partially inhibits the late phase reaction  
B. Jacobs, G. Gauvreau, R. Watson, A. Terek, K. Howie, K. Killian, P. O'Byrne (Utrecht, The Netherlands; Hamilton, Canada)
- P1783 Effect of olodaterol on the relaxation of small airways  
S. M. Brown, P. J. Barnes, L. E. Donnelly (London, United Kingdom)
- P1784 Acute reversal of allergen-induced airway hyperresponsiveness (AHR) by olodaterol is synergistically enhanced by tiotropium bromide  
M. Smit, A. B. Zuidhof, I. S. T. Bos, H. Maarsingh, R. Gosens, J. Zaagsma, H. Meurs (Groningen, The Netherlands)
- P1785 A novel dual-agonist challenge model in guinea pigs for assessment of individual and combined muscarinic antagonists and b<sub>2</sub> adrenoceptor agonists bronchodilator efficacy  
K. Mckechnie, M. Cicmil, S. Marshall, M. Mather (Loughborough, United Kingdom)
- P1786 Neutraligands of CXCL12: Anti-inflammatory activity in an allergic model of asthma  
F. Daubeuf, M. Hachet-Haas, V. Gasparik, P. Gizzi, F. Rohmer, J. Haiech, D. Bonnet, M. Hibert, J. L. Galzi, N. Frossard (Illkirch, France)
- P1787 Anti-inflammatory effects of garenoxacin on IL-8 production and ERK1/2 activation induced by lipopolysaccharides in A549 and THP-1 cells  
S. Hara, Y. Ishimatsu, H. Mukae, N. Sakamoto, T. Kakugawa, H. Fujita, A. Hara, S. Kohno (Nagasaki, Kitakyusyu, Japan)
- P1788 Polymerized type I collagen reverts airway hyperresponsiveness development in a guinea pig asthma model  
B. Bazan-Perkins, M. G. Campos, F. Gutierrez-Aguilar, P. Ramos-Ramirez, P. Moreno-Álvarez, E. Sanchez-Guerrero (Mexico, Mexico)
- P1789 Reduces inflammatory parameters in airways of diabetic-antigen sensitized guinea pigs  
S. Kolahian, F. Asadi, S. M. Nassiri (Tabriz, Tehran, Islamic Republic of Iran)
- P1790 Pharmacological assessment of the effects of SB-705498 on capsaicin-induced responses in healthy volunteers and patients with non-allergic rhinitis  
C. Holland, C. Segboer, D. Tsitoura, A. Newlands, P. Bareille, J. Denyer, C. van Drunen, W. Fokkens (Amsterdam, The Netherlands; Stevenage, United Kingdom)

ROOM E104-106

SESSION 224

08:30 - 10:30

**Poster Discussion: Smoking-related diseases and smoking cessation****Chairs: C. Jimenez Ruiz (Madrid, Spain), S. Luhning (Cordoba, Argentina)**

- P1791 Anxiety and depression measured by HASD questionnaire are related to failure in 4 week smoking cessation program  
F. Fernandes, G. Prado, U. Santos, J. P. Lotufo, M. Fukuoka, E. Souza (São Paulo, Brazil)
- P1792 Cost-effectiveness of a lung health intervention in US smokers  
L. McGarry, H. Parekh, R. Paulose-Ram, C. Baker, J. Su (Medford, New York, Ridgefield, United States of America)
- P1793 Outcome of nicotine replacement therapy in patients admitted to intensive care unit: A randomized case-control double blinded prospective pilot study  
V. Pathak, I. S. Hurtado Rendon, R. Lupu, N. Tactuk, T. Olutade, V. Vegesna, R. Stumacher (Marshfield, Bronx, United States of America)
- P1794 Do targeted smoking cessation ward rounds increase referrals to smoking cessation services? A survey in a UK district general hospital  
J. Maycock, V. Foy, P. Mulholland, D. Nazareth, S. Twite, P. Stockton (Liverpool, United Kingdom)
- P1795 High and low intensity interventions for smoking cessation during pregnancy, an RCT  
A. Loukopoulou, C. Vardavas, M. Kougias, N. Anagnostopoulos, G. Farmakides, M. Tzatzarakis, A. Tsatsakis, V. Evangelopoulou, P. Behrakis (Athens, Heraklion, Greece; Boston, United States of America)
- P1796 Predicted impact of access to varenicline on abstinence simulating multiple quit attempts over smokers' lifetimes  
R. J. Willke, D. Getsios, J. P. Marton, N. Revankar, K. H. Zou, J. Xenakis (New York, Lexington, United States of America)
- P1797 Smoking and treatments among asthma patients in South Korea  
F. Allen-Ramey, H. S. Park, K. S. Jung, K. F. Chung, H. Myeong, S. Irim, S. Everett, E. Maiese, D. Price (Suwon, Anyang, Seoul, Republic of Korea; London, Bollington, Aberdeen, United Kingdom; West Point, United States of America)
- P1798 Temporal effects of cigarette smoke associated to diesel exhaust particles in mice  
P. M. M. Arantes, A. C. Toledo, F. M. Almeida, C. R. Olivo, R. M. Magalhães, L. R. Fornaziero, M. Macchione, P. H. N. Saldiva, P. J. C. Biselli, F. D. T. Q. S. Lopes, M. A. Martins (São Paulo, Brazil)

## MONDAY SEPTEMBER 26

- P1799 Lung function of exclusives narghile smokers (ENS): Comparative study with exclusives cigarettes smokers (ECS)  
H. Ben Saad, K. Chaouachi, S. Rouatbi, S. Mdella, Z. Tabka (Sousse, Tunisia; Paris, France)
- P1800 The dynamics of free radical parameters in exhaled breath condensate (EBC) in smokers during the course of physical workload  
E. Zaprudnova, N. Popova, S. Soodaeva, I. Klimanov, A. Lisitsa, T. Li (Vladimir, Moscow, Russian Federation)
- P1801 Time trends of smoking habits in Italy during the last decade  
G. Verlato, V. Cappa, E. Montoli, M. Olivieri, L. Antonicelli, F. Attena, L. Briziarelli, M. Bugiani, I. Cerveri, M. G. Panico, P. Pirina, S. Villani, R. de Marco (Verona, Ancona, Naples, Perugia, Turin, Pavia, Salerno, Sassari, Italy)
- P1802 Smoking among adolescents in northern Greece: Epidemiological data and potential preventive factors  
D. Pelagidou, D. Spyrtos, D. Chloros, A. B. Haidich, E. Karetsi, C. Koubanliou, S. Konstantopoulos, K. Gourgoulisanis, L. Sichletidis (Thessaloniki, Larisa, Ioannina, Greece)
- P1804 The factors with high motivation for smoking cessation  
Z. Hessami, H. Sharifi, G. Heydari, M. Masjedi (Tehran, Islamic Republic of Iran)
- P1805 Maternal smoking during pregnancy and the risk of asthma related symptoms in the early childhood  
M. A. Stoica, A. Dumitrescu, M. Saftoiu (Bucuresti, Romania)
- P1806 Second hand smoke exposure among hospital staff in Budapest, Hungary: A case study  
D. L. Tarnoki, A. D. Tarnoki, M. J. Travers, A. Hyland, K. Dobson, L. Mechtler, L. Tamas, I. Horvath, K. M. Cummings (Budapest, Hungary; Buffalo, United States of America)
- P1807 The influence of early exposure to tobacco smoke for pulmonary disease  
A. Ebihara, A. Nagai, T. Nakano, T. Iwamoto, I. Kuwahira (Shibuya-ku, Japan)
- P1808 Determination of cutoff points for smoking biological markers and the influence of involuntary tobacco smoke exposure  
R. Barros, P. Pinto, C. Bárbara (Lisbon, Portugal)

ROOM E102

SESSION 225

08:30 - 10:30

## Poster Discussion: Tuberculosis: from bench to bedside

Chairs: C. Herzmann (Borstel, Germany), P. Ravn (Frederiksberg, Denmark)

- P1809 T<sub>reg</sub> cells are expanded among bronchoalveolar lymphocytes in healthy tuberculosis contacts with positive interferon- $\gamma$  release assay responses  
C. Herzmann, C. Lange, S. Stenger, J. Maertzdorf, T. Schaberg, G. Sotgiu, M. Ernst (Borstel, Ulm, Berlin, Rotenburg (Wuemme), Germany; Sassari, Italy)
- P1810 Phagocytic activity and pattern of Fc $\gamma$  and complement receptors on blood monocytes in pulmonary tuberculosis  
A. Dubaniewicz, M. Smigielska, P. Trzonkowski, J. Marek Slominski (Gdansk, Poland)
- P1811 The impact of absolute CD4+ and CD8+ T-cell counts on IGRA test results in HIV/AIDS patients  
R. Markova, R. Drenska, Y. Todorova, M. Nikolva, I. Elenkov (Sofia, Bulgaria)
- P1812 Cytokines in pathogenesis of pulmonary tuberculosis  
T. S. Basek, A. V. Elkin, B. E. Knoring, M. E. Kobak, Y. V. Kirillov (Saint-Petersburg, Russian Federation)
- P1813 Lethal tuberculosis in a previously healthy adult with IL-12 receptor deficiency  
P. Tabarsi, M. Marjani, J. L. Casanova, D. Mansouri (Tehran, Islamic Republic of Iran; New York, United States of America)
- P1814 Genotyping of *M. tuberculosis* from selected population of Kanpur City, north India  
A. Krishna, V. Katoch, S. Chaudhri, R. Das, P. Sharma, A. Sampath (Kanpur, New Delhi, Agra, India)
- P1815 Genetic association studies between the MyD88 adaptor pathway SNPs and the development of tuberculosis  
F. Malli, V. Mollaki, A. Koutsokera, I. Gerogianni, K. Gourgoulisanis, G. Vassilopoulos, Z. Daniil (Larissa, Athens, Greece)
- P1816 NALP3 and CARD8 genetic polymorphisms and antituberculosis-drugs induced hepatitis  
S. H. Kim, H. J. Kwak, H. J. Yoon, D. H. Shin, S. S. Park, S. H. Kim, Y. S. Kim, J. S. Park, Y. K. Jee (Seoul, Cheonan, Republic of Korea)
- P1817 Mutations of the *gyrA* gene of *Mycobacterium tuberculosis* leading to XDR tuberculosis in Kyrgyz Republic  
J. Isakova, N. Sovhozova, A. Aldashev (Bishkek, Kyrgyzstan)
- P1818 Novel sequence-based assay for detection of pyrazinamide-resistant *Mycobacterium tuberculosis* in clinical specimens from patients with pulmonary tuberculosis in Russia  
M. Alvarez Figueroa, M. Gordukova, G. Lobashova (Moscow, Russian Federation)
- P1819 Results of spoligotyping of *M. tuberculosis* strains isolated in Belarus  
A. Zalutskaya, M. Wijkander, A. Skrahina, S. Hoffner (Minsk, Republic of Belarus; Solna, Sweden)
- P1820 Molecular characterization of *M. tuberculosis* isolates in Albania by spoligotyping  
S. Tafaj, H. Hafizi, M. Kromidha, I. Festoso, E. Borroni, D. Cirillo (Tirana, Albania; Milan, Italy)
- P1821 First experience with novel molecular diagnostic method for detection of *M. tuberculosis* and rifampicin resistance  
A. Gurbo, A. Krams, L. Kuksa, D. Dusacka, G. Skenders, J. Storozenko (Riga, Latvia)

- P1822 A new integrated PCR and microarray lab-on-chip for rapid MDR tuberculosis diagnosis  
D. M. Cirillo, A. M. Cabibbe, P. Miotto, E. Lazzeri, F. Santoro, I. Kontsevaya, V. Nikolayevskyy, G. Pozzi, S. Niemann, F. Drobniewski (Milan, Siena, Italy; Samara, Russian Federation; London, United Kingdom; Borstel, Germany)
- P1823 PCR for diagnosis of tuberculosis and pulmonary mycoses in México  
R. Garrido, E. Barrera, K. Cabada (Ciudad Juárez, Mexico)
- P1824 Relationship between rpoB mutations and minimum inhibitory concentrations of rifampicin in multi drug resistant strains of mycobacterium tuberculosis  
S. Vaidya, V. Shinde, R. Jadhav, S. Mulye, A. Chowdhary, M. Kulkarni, G. Koppikar (Mumbai, Hyderabad, Delhi, India)
- P1825 Hair-analysis for acetyl-isoniazid/isoniazid ratio and N-acetyl-transferase-2-genotype in patients on treatment for mycobacterium tuberculosis infection  
M. Eisenhut, D. Thieme, D. Schmid, S. Luederwald, S. Hans (Luton, United Kingdom; Kreischa, Munich, Germany)
- P1826 Evaluation of the detection of non-cultivable *mycobacterium tuberculosis* in human clinical samples  
N. Cubero, M. J. Garcia, R. Lopez Lisbona, A. Rosell, J. Dorca (Barcelona, Madrid, Spain)

## ROOM D201-202

## SESSION 226

08:30 - 10:30

## Poster Discussion: T-cell subsets

Chairs: P. Chanez (Marseille, France), C. Corrigan (London, United Kingdom)

- P1827 Pulmonary dendritic cells from chronic obstructive pulmonary disease patients suppress lung immune responses through induction of regulatory T cells  
M. Tsoumakidou, S. Tousa, E. Litsiou, N. Panagiotou, A. Panagiotou, M. Konstantinou, K. Potaris, C. Roussos, G. Xanthou, S. Zakyntinos (Athens, Greece)
- P1828 Regulatory T cells in healthy and asthmatic subjects challenged with rhinovirus  
S. Bal, M. van de Pol, P. Bresser, J. van der Zee, S. Johnston, P. Sterk, K. van der Sluijs, R. Lutter (Amsterdam, The Netherlands; London, United Kingdom)
- P1829 T-regulatory cells blood content in patients with asthma exacerbation  
Z. Antanovich, V. Tsarev, N. Goncharova (Minsk, Republic of Belarus)
- P1830 Effector and regulatory lymphocytes in asthmatic pregnant women  
L. Tamási, A. Bohács, A. Cseh, N. Eszes, J. Rigó, Jr., V. Müller, B. Vászárhelyi, G. Losonczy (Budapest, Hungary)
- P1831 Comparative characteristics of regulatory T cells populations between patients with bronchial asthma (BA) and COPD  
E. Kremer, N. Kirillova, T. Perevozchikova, E. Fajt, I. Deev, L. Ogorodova (Tomsk, Russian Federation)
- P1832 IL-17 and Th17-cells as markers of disease progression in pediatric allergic diseases. A therapeutic approach in an "in vitro" models  
M. Profita, L. Riccobono, R. Gagliardo, C. DiSano, A. M. Montalbano, G. D. Albano, A. Ferlisi, A. Bonanno, P. Chanez, M. Gjomarkaj, S. La Grutta (Palermo, Italy; Marseille, France)
- P1833 Lung and blood Th1 and Th17 responses against mycobacterial antigens in patients with pulmonary sarcoidosis  
M. Ostadkarampour, A. Eklund, D. Moller, J. Grunewald, J. Wahlström (Stockholm, Sweden; Baltimore, United States of America)
- P1834 Characterization of lymphocyte subsets in the lungs of smokers and patients with COPD  
H. Forsslund, M. Mikko, J. Grunewald, A. Wheelock, J. Wahlström, M. Sköld (Stockholm, Sweden)
- P1835 TCR rearrangement in patients with eosinophilic lung disease  
N. Freymond, V. Cottin, C. Khouatra, J. E. Kahn, N. Sivova, L. Prin, F. Legrand, J. F. Cordier (Lyon, Suresnes, Lille, France)
- P1836 Reduced expression of PPAR-alpha in bronchoalveolar lavage CD4+ T cells of sarcoidosis patients  
M. Abo Al Hayja, A. Eklund, J. Grunewald, J. Wahlström (Stockholm, Sweden)
- P1837 Killer cells in asthma with incomplete airflow reversibility  
C. Tubby, T. Harrison, I. Todd, L. Fairclough (Nottingham, United Kingdom)
- P1838 Collagen receptor  $\alpha 2\beta 1$  integrin is overexpressed on CD4 and CD8 peripheral blood T lymphocytes in long-lasting clinically stable asthma  
J. Zuk, S. Bazan-Socha, J. Musial (Krakow, Poland)
- P1839 Different Th1, Th2, Th17 and Treg associated chemokine local pattern expression in lung in a murine model of allergic inflammation  
Y. Lu, C. Malmhäll, M. Rådinger, M. Sjöstrand, S. O'Neil, B. Lundbäck, J. Lötval, A. Bossios (Gothenburg, Sweden)
- P1840 T cell specific expression of a short splice variant of the tumor suppressor gene CYLD amplifies the development of allergic airway disease  
S. Reuter, M. Becker, N. Dehzad, H. Martin, A. Waisman, M. Stassen, R. Buhl, C. Taube (Mainz, Germany)
- P1841 Apoptosis of peripheral blood lymphocytes in different periods of asthma  
Z. Antanovich, V. Tsarev, N. Goncharova (Minsk, Republic of Belarus)
- P1842 Mechanism of long-lasting suppression against Th2 immune response in the lung by a novel antedrug TLR7 agonist  
K. Eiho, H. Matsui, H. Hayashi, R. Inagaki, M. Aoki, M. Biffen, A. Leishman, S. Edwards, C. Murray, H. Takaku, H. Tomizawa, S. Akira, Y. Ueda (Osaka, Japan; Loughborough, United Kingdom)

MONDAY  
26

## MONDAY SEPTEMBER 26

- P1843 Repeated intranasal TLR7 stimulation reduces allergen responsiveness in allergic rhinitis  
L. Greiff, C. Ahlstrom-Emanuelsson, G. Almquist, M. Andersson, A. Cervin, J. Dolata, L. Eriksson, A. Kallen, P. Norlen, I. L. Sjolín, H. Widegren (Lund, Helsingborg, Sweden)
- P1844 Farm dust decreases Th2 driven allergic airway inflammation in mice: A role for airway TLR2 and TLR4?  
P. Robbe, M. J. Blacquiére, D. S. Postma, W. Timens, M. Geerlings, A. Bufe, O. Holst, E. von Mutuis, M. N. Hylkema (Groningen, The Netherlands; Bochum, Borstel, Munich, Germany)

ROOM 7.1

SESSION 228

10:45 - 11:05

**Maurizio Vignola Award for Innovation in Pneumology Ceremony (supported by Chiesi Foundation)**

- 10:45 Introduction of ERS Maurizio Vignola Award for innovation in pneumology  
P. J. Barnes (London, United Kingdom) 1845
- 10:50 2011 Maurizio Vignola Awardee  
M. Kormann (Tuebingen, Germany) 1846

FOLLOWED BY

11:05 - 12:45

**“Science Year in Review”**

**Aims:** An update on important scientific developments that are of future clinical relevance.

Suggested references for the presentations.

«Inflammasomes in inflammatory lung disease»:

- Dostert C, Petrilli V, Van Bruggen R, et al. Innate immune activation through Nalp3 inflammasome sensing of asbestos and silica. *Science* 2008;320: 674-677.

- Yazdi AS, Guarda G, Riteau N, et al. Nanoparticles activate the NLR pyrin domain containing 3 (Nlrp3) inflammasome and cause pulmonary inflammation through release of IL-1alpha and IL-1beta. *Proc Natl Acad Sci USA* 2010; 107: 19449-19454.

- Martinon F, Mayor A, Tschopp J. The inflammasomes: guardians of the body. *Annu Rev Immunol* 2009; 27: 229-265.

- Henderson C, Goldback-Mansky R. Monogenic autoinflammatory diseases: new insights into clinical aspects and pathogenesis. *Curr Opin Rheumatol* 2010; 22: 567-578.

«Th17 cells in inflammatory lung diseases»

- Vanaudenaerde BM, Verleden SE, Vos R, et al. Innate and adaptive il-17 producing lymphocytes in chronic inflammatory lung disorders. *Am J Respir Crit Care Med* 2011; 183: 977-986.

- Di Stefano A, Caramori G, Gnemmi I, et al. T helper type 17-related cytokine expression is increased in the bronchial mucosa of stable chronic obstructive pulmonary disease patients. *Clin Exp Immunol* 2009; 157: 316-324.

- Cua DJ, Tato CM. Innate IL-17-producing cells: the sentinels of the immune system. *Nat Rev Immunol* 2010; 10: 479-489.

- Pene J, Chevalier S, Preisser L, et al. Chronically inflamed human tissues are infiltrated by highly differentiated Th17 lymphocytes. *J Immunol* 2008; 180: 7423-7430.

«Towards an artificial lung»:

- Ott HC, Clippinger B, Conrad C. Regeneration and orthotopic transplantation of a bioartificial lung. *Nat Med* 2010; 16: 927-933.

- Ott HC, Matthiesen TS, Goh SK. Perfusion-decellularized matrix: using nature's platform to engineer a bioartificial heart. *Nat Med* 2008; 14: 213-221.

«TIM genes in allergic inflammation»

- Lin J, Kane LP. Are TIM proteins involved in asthma development or pathology? *Clin Exp Allergy* 2011; 41: 917-919.

- Sonar SS, Hsu YM, Conrad ML, et al. Antagonism of TIM-1 blocks the development of disease in a humanized mouse model of allergic asthma. *J Clin Invest* 2010; 16: 2767-2781.

- Wu QW, Cai PC, Wang L, et al. Family-based association study of Tim-1 and Tim-3 gene polymorphisms with childhood asthma in Chinese trios. *Int Arch Allergy Immunol* 2009; 150: 252-260.

- Rodriguez-Manzanet R, DeKruyff R, Kuchroo VK, et al: The costimulatory role of TIM molecules. *Immunol Rev* 2009; 229: 259-270.

**Target audience:** Clinicians, scientists, researchers and pharmaceutical companies.

**Chairs:** T. Geiser (Bern, Switzerland), P. J. Barnes (London, United Kingdom)

- 11:05 Inflammasomes in inflammatory lung disease  
G. Guarda (Lausanne, Switzerland) 1847
- 11:30 Th17 cells in inflammatory lung diseases  
B. Vanaudenaerde (Blanden, Belgium) 1848
- 11:55 Towards an artificial lung  
L. Ikonomou (Boston, United States of America) 1849
- 12:20 TIM genes in allergic inflammation  
H. Renz (Marburg, Germany) 1850

BASIC



## PHYSIOLOGY

## AUDITORIUM

## SESSION 229

10:45 - 12:45

**Symposium: The prognostic value of cardiopulmonary exercise testing**

**Aims:** The audience will be introduced to and updated on the evidence supporting the use of cardiopulmonary exercise testing as a prognostic tool.

**Target audience:** Physiologists, researchers and clinicians interested in the use of cardiopulmonary exercise testing in clinical practice and research.

**Chairs:** L. Puente Maestú (Madrid, Spain), P. Palange (Rome, Italy)

- |       |   |      |
|-------|---|------|
| 10:45 | The survival of the fittest: maximal oxygen uptake and survival overview<br>J. Myers (Palo Alto, United States of America)                        | 1851 |
| 11:15 | The prognostic value of cardiopulmonary exercise testing in idiopathic pulmonary fibrosis<br>K. Flaherty (Ann Arbour, United States of America)   | 1852 |
| 11:45 | Prediction of mortality: what variables should we consider?<br>M. Puhan (Zurich, Switzerland)   | 1853 |
| 12:15 | Importance of cardiopulmonary exercise testing in the assessment of patients with primary pulmonary hypertension<br>R. Naeije (Brussels, Belgium) | 1854 |

## PAEDIATRIC

## ROOM 7.2

## SESSION 230

10:45 - 12:45

**Symposium: The digital highway: innovative monitoring of asthma**

**Aims:** The audience will get an overview on new, practical tools to assess and improve asthma control of their patients by using innovative ways of monitoring and using the newest home-monitoring tools.

**Target audience:** Paediatricians, paediatric pulmonologists, fellows, nurses, respiratory physicians and allied respiratory professionals.

**Chairs:** H. Lee (Seoul, Republic of Korea), G. Piacentini (Verona, Italy)

- |       |  |      |
|-------|--|------|
| 10:45 | Monitoring asthma in childhood: what tools are available and documented?<br>M. Pijnenburg (Rotterdam, The Netherlands) | 1855 |
| 11:15 | Internet-based home-monitoring of adolescents with asthma<br>J. Sont (Leiden, The Netherlands)                         | 1856 |
| 11:45 | Telemonitoring of symptoms, lung function and exhaled nitric oxide<br>S. Carraro (Padova, Italy)                       | 1857 |
| 12:15 | Improving adherence to asthma treatment: motivational interviewing<br>K. Riekert (Baltimore, United States of America) | 1858 |

## ELICIUM 2

## SESSION 231

10:45 - 12:45

**Hot Topic: The value of patients as partners in research**

**Aims:** At the end of this ELF organised session, the audience will have heard, discussed and gained information on:

- the benefits that can be gained from having patients as active partners in research;
- the challenges that might be faced when involving patients in research and how these can be overcome;
- examples of different levels of patient involvement in research and the outcomes;
- methods that can be employed to better engage the patient;
- insights into the level of information that should be provided to patients and the training required;
- mechanisms for increasing patient participation.

**Target audience:** Clinical researchers and epidemiologists, pharmaceutical, basic science and genomics specialists who are involved in research and seeking ways to involve patients meaningfully in their research. The symposium will also target patients and patient organisations attending the congress as part of the ELF strategy to engage these groups in the life and work of the ERS. Industry will benefit from the debate.

**Chairs:** M. Fletcher (Warwick, United Kingdom), L. Buzermaniene (Vilnius, Lithuania)

- |       |   |      |
|-------|---|------|
| 10:45 | Patient involvement in clinical research: a new golden standard<br>C. Oosterwijk (Da Soest, The Netherlands)  | 1859 |
| 11:15 | Active patient participation in research and research policy making<br>P. J. Sterk (Amsterdam, The Netherlands)   | 1860 |
| 11:45 | The added value of active patient involvement in health research<br>S. Buckland (Eastleigh, United Kingdom)   | 1861 |
| 12:15 | Workable instruments and tools realising active patient participation: a set of criteria from the patient's perspective<br>T. Teunissen (Amersfoort, The Netherlands) | 1862 |

## MONDAY SEPTEMBER 26

EPIDEMIOLOGY/  
ENVIRONMENT

ROOM 5.1

SESSION 232

10:45 - 12:45

**Symposium: Epidemiology of COPD exacerbations**

**Aims:** This session will provide an update on the knowledge of various aspects of the epidemiology of COPD exacerbations, such as prevalence, incidence, risk factors and health economy.

**Target audience:** Clinicians, GPs and nurses.

**Chairs:** B. Lundback (Gothenburg, Sweden), R. Rodríguez-Roisin (Barcelona, Spain)

- |       |  |      |
|-------|--|------|
| 10:45 | The prevalence, the incidence and the cost of COPD exacerbations<br>C. Janson (Uppsala, Sweden)                                | 1863 |
| 11:15 | The role of infections as a trigger of COPD exacerbations and decline of lung function<br>J. Wedzicha (London, United Kingdom) | 1864 |
| 11:45 | Biomarkers in COPD exacerbations<br>P. Bakke (Bergen, Norway)  | 1865 |
| 12:15 | Exacerbations of and prognosis in COPD: population and clinical approaches<br>J. Soriano (Bunyola, Spain)                      | 1866 |

## CLINICAL

ROOM 4.1

SESSION 233

10:45 - 12:45

**Symposium: Vasculitis and the lung**

**Aims:** This comprehensive symposium will present the latest information on the pathology, imaging, clinical features and treatment of pulmonary vasculitides, with special emphasis on recent advances in the field.

**Target audience:** Clinicians and chest physicians.

**Chairs:** J-F. Cordier (Lyon, France), C. Robalo Cordeiro (Coimbra, Portugal), Y. Inoue (Osaka, Japan)

- |       |   |      |
|-------|---|------|
| 10:45 | Imaging spectrum and diagnostic pitfalls of pulmonary vasculitides<br>S. Desai (London, United Kingdom) | 1867 |
| 11:15 | From asthma to systemic eosinophilic disease<br>V. Cottin (Lyon, France)                                | 1868 |
| 11:45 | From alveolar haemorrhage to pulmonary renal syndrome<br>M. Schwarz (Aurora, United States of America)  | 1869 |
| 12:15 | Update in the management of Wegener granulomatosis<br>C. Pagnoux (Toronto, Canada)                      | 1870 |

ELICIUM 1

SESSION 234

10:45 - 12:45

**Oral Presentation: Phenotyping asthma: a clue for treatments?**

**Chairs:** S-E. Dahlén (Stockholm, Sweden), C. Taille (Paris, France)

- |       |   |      |
|-------|---|------|
| 10:45 | Late-breaking abstract: Genome-wide association of <i>GLCCI1</i> with asthma steroid treatment response<br>K. Tantisira, J. Lasky-Su, M. Harada, A. Murphy, A. Litonjua, B. Himes, C. Lange, R. Lazarus, J. Sylvia, B. Klanderma, Q. Duan, W. Qiu, T. Hirota, F. Martinez, D. Mauger, C. Sorkness, S. Szeffler, S. Lazarus, R. Lemanske, S. Peters, J. Lima, Y. Nakamura, M. Tamari, S. Weiss (Boston, Tucson, Hershey, Madison, Denver, San Francisco, Winston-Salem, Jacksonville, United States of America; Kanagawa, Japan) | 1871 |
| 11:00 | Frequent exacerbators – A distinct phenotype of severe asthma<br>M. Kupczyk, S. Haque, R. Middelveld, S. E. Dahlen, on behalf of the BIOAIR Study Group (Stockholm, Sweden)   | 1872 |
| 11:15 | Is hypereosinophilic asthma a specific phenotype of asthma?<br>P. Pradère, Y. Uzunhan, J. Cadranet, A. Bergeron-Lafaurie, D. Israël-Biet, G. Garcia, S. Jouveshomme, M. Varrin, M. Aubier, B. Crestani, C. Taillé (Paris, Bobigny, Clamart, Poissy, Montpellier, France)  | 1873 |
| 11:30 | Exhaled nitric oxide levels differ between allergic and non-allergic asthma in men, but not in women<br>M. Imaoka (Fukuoka, Japan)  | 1874 |
| 11:45 | Does systematic assessment improve healthcare outcomes and healthcare utilisation in patients with severe asthma?<br>S. Regan, F. Shora, M. Hofmann, A. Menzies-Gow (London, United Kingdom)  | 1875 |
| 12:00 | Improvement of asthma control by a concomitant therapy with cineole<br>H. Worth (Fürth, Germany)  | 1876 |
| 12:15 | Pragmatic controlled trial of azithromycin for asthma in adults<br>D. Hahn, M. Grasmick, S. Hetzel (Madison, United States of America)  | 1877 |
| 12:30 | Persistent asthma and long-term work disability<br>P. Kauppi, R. Hakola, T. Leino, A. Ojajarvi, J. Pentti, T. Oksanen, T. Haahtela, M. Kivimäki, J. Vahtera (Helsinki, Turku, Finland)  | 1878 |

## FORUM

## SESSION 235

10:45 - 12:45

## Oral Presentation: Imaging in COPD

Chairs: S. Ley (Heidelberg, Germany), C. Schaefer-Prokop (Amsterdam Zuid-Oost, The Netherlands)

- 10:45 Assessment of relative regional lung compliance in patients with COPD  
A. Morgan, G. Parker, P. Hubbard, D. Singh, J. Vestbo, S. Young, E. Bondesson, L. Wigström, L. Olsson, M. Scott, J. Naish (Manchester, Charnwood, Alderley Park, Macclesfield, United Kingdom; Lund, Mölndal, Sweden) 1879
- 11:00 Novel ventilation-perfusion ratio measurements in COPD using MRI  
P. L. Hubbard, G. J. M. Parker, D. Singh, J. Vestbo, E. Bondesson, L. E. Olsson, L. Wigström, S. S. Young, J. H. Naish (Manchester, Alderley Park, United Kingdom; Mölndal, Sweden) 1880
- 11:15 Repeatability of MR imaging in chronic obstructive pulmonary disease (COPD)  
S. Ley, A. Anjorin, J. Ley-Zaporozhan, A. Opgenorth, O. Sedlaczek, C. P. Heussel, H. U. Kauczor (Toronto, Canada; Heidelberg, Germany) 1881
- 11:30 Ventilation-perfusion mismatch in COPD with or without emphysema: Comparison of structural CT and functional OE-MRI  
W. Zhang, P. Hubbard, E. Bondesson, L. Wigström, S. Young, D. Singh, G. Parker, J. Naish (Manchester, Charnwood, United Kingdom; Lund, Sweden) 1882
- 11:45 Decline in lung density is accelerated in active smokers  
S. B. Shaker, A. Dirksen, P. Lo, L. T. Skovgaard, M. de Bruijne, J. H. Pedersen (Copenhagen, Denmark) 1883
- 12:00 The relationship between airflow limitation and quantitative computed tomographic assessment of air trapping and emphysema  
O. M. Mets, K. Murphy, P. Zanen, H. A. Gietema, J. Lammers, B. van Ginneken, M. Prokop, P. A. de Jong (Utrecht, Nijmegen, The Netherlands) 1884
- 12:15 Computer modelling and visualisation of the microscopic distributions of hyperpolarised gas diffusivity in models of acinar airways  
J. Parra-Robles, X. Xu, J. M. Wild (Sheffield, United Kingdom) 1885

## ROOM 5.2

## SESSION 236

10:45 - 12:45

## Oral Presentation: The best abstracts in rehabilitation and chronic care 2011 (sponsored by Nutricia Advanced Medical Nutrition)

Chairs: S. Singh (Leicester, United Kingdom), M. A. Spruit (Horn, The Netherlands)

- 10:45 Late-breaking abstract: Wii Fit-step is a suitable exercise in rehabilitation programs in patients with COPD: A feasibility study  
T. Marqueste, F. Lassus, O. Castagna, D. D'Amore, B. Escarguel, L. Marqueste (Marseille, Toulon, France) 1886
- 11:00 Obstructive lung disease is associated with increased abdominal visceral fat and elevated systemic adipocytokines  
B. van den Borst, H. Gosker, A. Koster, S. Kritchevsky, Y. Liu, B. Meibohm, T. Rice, M. Shlipak, T. Harris, A. Schols (Maastricht, The Netherlands; Bethesda, Winston-Salem, Memphis, Pittsburgh, San Francisco, United States of America) 1887
- 11:15 Does protein supplementation enhance the effects of resistance training in patients with COPD?  
L. Houchen, M. Menon, S. Harrison, C. Sandland, M. Morgan, S. Singh, M. Steiner (Leicester, Coventry, United Kingdom) 1888
- 11:30 Stability of life-sustaining treatment preferences of patients with advanced chronic organ failure  
D. Janssen, M. Spruit, J. Schols, B. Cox, T. Nawrot, R. Curtis, E. Wouters (Horn, Maastricht, The Netherlands; Diepenbeek, Belgium; Seattle, United States of America) 1889
- 11:45 Effect of resistance training during hospitalization in the systemic inflammation, functional capacity and muscle strength in COPD patients  
R. Borges, C. R. F. Carvalho (São Paulo, Brazil) 1890
- 12:00 Effects and feasibility of different types of endurance training in patients with end stage lung disease before lung transplantation  
R. Gloeckl, B. Weber-Lange, M. Halle, K. Kenn (Schoenau am Koenigssee, Munich, Germany) 1891
- 12:15 Vitamin D status in patients with COPD who participate in pulmonary rehabilitation (PR): Characteristics and effects of PR  
T. Ringbaek, J. Thøgersen, G. Martinez, P. Lange (Copenhagen, Denmark) 1892
- 12:30 Anti-inflammatory nutritional support enhances exercise performance and QOL in patients with stable COPD  
K. Sugawara, T. Shioya, M. Satake, A. Kawagoshi, H. Takahashi, T. Kashiwagura, K. Yamada, K. Dairiki, H. Sasaki, M. Homma (Akita, Odawara, Japan) 1893

## MONDAY SEPTEMBER 26

ROOM 3.1

SESSION 237

10:45 - 12:45

## Oral Presentation: What is new in tuberculosis immunodiagnosis?

Chairs: J. Dominguez (Badalona, Spain), G. Ferrara (Solna, Sweden)

- 10:45 Keynote lecture: Immunodiagnosis of tuberculosis - are we asking for too much?  
C. Lange (Borstel, Germany) 1894
- 11:00 Risk for progression to tuberculosis among arriving immigrants with a positive IGRA  
C. Mulder, H. van Deutekom, E. Huisman, S. Toumanian, B. Koster, W. Meijer-Veldman, J. van Loenhout-Rooyackers, M. Appel, S. Arend, C. Erkens, M. Borgdorff, F. van Leth (The Hague, Amsterdam, Enschede, Utrecht, Nijmegen, Groningen, Eindhoven, Leiden, The Netherlands) 1895
- 11:15 Head-to-head analysis of IGRAs and skin-testing in immunocompromised patients: Interim analysis of a multicenter TBNET study  
M. Sester, F. van Leth, E. Girardi, J. Bruchfeld, D. Bumbacea, D. Cirillo, A. G. Dilektasli, J. Dominguez, R. Duarte, M. Ernst, F. Eyuboglu, I. Gerogianni, D. Goletti, J. P. Janssens, I. Julander, B. Lange, I. Latorre, M. Losi, R. Markova, A. Matteelli, G. B. Migliori, H. Milburn, P. Ravn, J. Rothel, T. Scholman, P. Socal, M. Straub, D. Wagner, A. Yalcin, C. Lange (Homburg, Freiburg, Borstel, Germany; The Hague, The Netherlands; Rome, Tradate, Milano, Modena, Italy; Stockholm, Sweden; Bucharest, Romania; Ankara, Turkey; Badalona, Spain; Villa Gaia de Nova, Portugal; Thessaly, Greece; Geneva, Switzerland; Sofia, Bulgaria; London, United Kingdom; Herlev, Denmark; Carnegie, Australia) 1896
- 11:30 Specific diagnosis of tuberculosis infection sent via mail – IGRAs on paper  
M. Ruhwald, I. Latorre, J. Diaz, J. Maldonado, I. Mialdea, P. Ravn, J. Dominguez, M. Aabye (Copenhagen, Denmark; Badalona, Valencia, Spain) 1897
- 11:45 Smoking is a strong independent risk factor for indeterminate and false negative IGRA results  
M. G. Aabye, M. Ruhwald, G. PrayGod, D. Faurholt-Jepsen, K. Jeremiah, M. Faurholt-Jepsen, N. Range, H. Friis, J. Changalucha, A. B. Andersen, P. Ravn (Hvidovre, Frederiksberg, Copenhagen, Herlev, Denmark; Mwanza, Dar es Salaam, Tanzania, United Republic of) 1898
- 12:00 Bifunctional T cells allow for discrimination between latent and active tuberculosis  
B. Kalsdorf, P. Essone, N. N. Chegou, A. Loxton, D. Kriel, V. Schöllhorn, M. Ernst, C. Lange, G. Walzl (Tygerberg, South Africa; Borstel, Strassberg, Germany) 1899
- 12:15 IP-10 measurement using a point of care test for the diagnosis of active tuberculosis  
B. Lange, M. Vavra, W. Kern, W. Dirk (Freiburg, Germany) 1900
- 12:30 Methylated HBHA produced in *M. smegmatis* discriminates between active and non-active TB disease among the QFT-IT-responders  
G. Delogu, T. Chiacchio, V. Vanini, O. Butera, G. Cuzzi, A. Bua, P. Molicotti, S. Zanetti, F. Lauria, S. Grisetti, N. Magnavita, G. Fadda, E. Girardi, D. Goletti (Rome, Sassari, Italy) 1901

ROOM 3.2

SESSION 238

10:45 - 12:45

## Oral Presentation: The burden of work-related respiratory disease: known and new endpoints

Chairs: F. De Blay (Strasbourg, France), L. Smit (Utrecht, The Netherlands)

- 10:45 Occupational exposures and airway obstruction in the burden of obstructive lung disease (BOLD) study  
P. Burney, B. Kato, B. Lamprecht, L. Idolor, A. Gulsvik, S. Buist (London, United Kingdom; Salzburg, Austria; Manilla, Philippines; Bergen, Norway; Portland, United States of America) 1902
- 11:00 Occupational exposure to dusts, gases, and fumes and incidence of COPD in SAPALDIA  
A. Mehta, D. Miedinger, D. Keidel, R. Bettschart, A. Bircher, P. O. Bridevaux, I. Curjuric, H. Kromhout, N. Probst-Hensch, T. Rothe, E. W. Russi, T. Schikowski, C. Schindler, J. Schwartz, R. Vermeulen, T. Rochat, N. Kuenzli (Basel, Luzern, Aarau, Geneva, Davos Clavadel, Zurich, Switzerland; Utrecht, The Netherlands; Boston, United States of America) 1903
- 11:15 Types and frequency of triggers experienced by asthma patients: A quantitative study  
P. Dale, E. Elder, G. Newbold, N. Vyas, S. O'Regan, D. Price, K. R. Chapman (Stockley Park, Wallington, Oxford, Aberdeen, United Kingdom; Toronto, Canada) 1904
- 11:30 Role of occupational exposure on the outcome of sinus surgery: An observational study  
V. Hox, S. Delrue, H. Scheers, E. Adams, S. Keirsbilck, M. Jorissen, P. Hoet, J. Vanoirbeek, B. Nemery, P. Hellings (Leuven, Belgium) 1905
- 11:45 Mothers work exposure during pregnancy and asthma in their children, a prospective cohort-study  
B. H. Christensen, A. D. Larsen, L. R. Skadhauge, A. M. Thulstrup, K. S. Hougaard, K. S. Hansen, M. Frydenberg, V. Schlünssen (Aarhus, Copenhagen, Esbjerg, Gentofte, Denmark) 1906
- 12:00 Risk factors for decreased work ability among middle-aged men having asthma from youth  
I. Lindström, A. Karjalainen, R. Luukkonen, P. Pallasaho, H. Suojalehto, A. Lauerma (Helsinki, Tampere, Finland) 1907

## ROOM 4.2

## SESSION 239

10:45 - 12:45

**Oral Presentation: Surgery for lung cancer: pre-operative evaluation and results****Chairs: P. Van Schil (Antwerp, Belgium), J. Pac Ferrer (Bilbao, Spain)**

- 10:45 Late-breaking abstract: The impact of extended cervical mediastinoscopy in staging of left lung carcinoma  
A. Sayar, N. Çitak, S. Büyükkale, M. Metin, A. Kök, S. Yurt, A. Çelikten, A. Gürses (Istanbul, Turkey) 1908
- 11:00 Improvements in lung cancer surgery  
T. E. Strand, K. Bartnes, H. Rostad (Oslo, Tromsø, Norway) 1909
- 11:15 Role of thoracoscore (thoracic surgery scoring system) in clinical practice  
B. Thangakunam, K. Pannu, K. Wilkins, B. Ibrahim, B. Yung, D. Mukherjee, D. Aitchison, J. Samuel (Basildon, United Kingdom) 1910
- 11:30 Vibration response imaging (VRIxp) for calculation of predictive postoperative lung function. Comparison to lung perfusion scintigraphy  
M. Westhoff, S. Gernot, A. Kempa, M. Gat (Hemer, Germany; Or-Akiva, Israel) 1911
- 11:45 Timed stair climbing to 20 m altitude identifies lung resection candidates with high exercise capacity  
M. Bernasconi, D. Maree, C. Koegelenberg, F. von Groote-Bidlingmaier, A. Diacon, C. Bolliger (Cape Town, South Africa) 1912
- 12:00 Prediction of postoperative FEV1 and chronic dyspnoea using quantitative computed tomography (CT) in lung resection candidates  
C. V. Papageorgiou, G. Kaltsakas, P. Misthos, I. Tsangaridou, D. Chaimala, N. G. Koulouris (Athens, Greece) 1913
- 12:15 FEV<sub>1</sub> is not a prognostic marker in operated patients with stage I or II non-small cell lung cancer (NSCLC)  
A. Cogen, Y. Dockx, A. Janssens, J. Weyler, P. Van Schil (Edegem, Wilrijk, Belgium) 1914
- 12:30 Lobectomy tolerance in COPD patients  
A. Petrunin, A. Pichurov, O. Orzheshkovski, E. Sokolovich, P. Yablonski (Saint-Petersburg, Russian Federation) 1915

## EMERALD

## SESSION 240

10:45 - 12:45

**Oral Presentation: Resuscitation and ventilation in the baby and infant****Chairs: R. Ross-Russell (Cambridge, United Kingdom), A. te Pas (Leiden, The Netherlands)**

- 10:45 Neonatal resuscitation at the community level  
N. Bhandari, R. Bhandari, P. Kandel, S. Sharma (Kathmandu, Nepal) 1916
- 11:00 The influence of oxygen inflow on ventilatory parameters during manual ventilation  
P. Oliveira, A. Almeida-Junior, C. Almeida, M. A. Ribeiro, J. Ribeiro (Campinas, Brazil) 1917
- 11:15 Influence of mask leak on applied volumes and pressures during simulated resuscitation of neonates  
J. C. Hartung, M. Kelm, H. Fischer, G. Schmalisch, C. C. Roehr (Berlin, Germany) 1918
- 11:30 Appropriate level of volume targeting for ventilated infants born at or near term  
O. Chowdhury, S. Lee, S. Hannam, G. F. Rafferty, A. Greenough (London, United Kingdom) 1919
- 11:45 Therapeutic hypercapnia prevents pulmonary hypertension in rats with bleomycin-induced chronic neonatal lung injury  
C. Sewing, J. Ivanovska, C. Kantores, A. Masood, P. J. McNamara, A. K. Tanswell, R. P. Jankov (Toronto, Canada) 1920
- 12:00 The distribution of lung aeration at different positive end-expiratory pressure levels in newborn rabbits  
M. Siew, M. Kitchen, A. te Pas, M. Wallace, M. Islam, N. Yagi, K. Uesugi, S. Hooper (Clayton, Australia; Leiden, The Netherlands; Hyogo, Japan) 1921
- 12:15 Hospitalization for bronchiolitis in very preterm infants without broncho-pulmonary dysplasia  
B. Fauroux, J. C. Rozé, C. Guillermet-Fromentin, I. Glorieux, L. Adamon, M. Di Maio, D. Angheliescu, D. Pinquier, B. Escande, C. Elleau, J. B. Gouyon (Paris, Nantes, Besançon, Toulouse, Caen, Poitiers, Rungis, Rouen, Strasbourg, Bordeaux, Dijon, France) 1922
- 12:30 Keynote lecture: Conclusion "Where next with neonatal respiratory research?"  
K. Bohlin (Älvsjö, Sweden) 1923

## ROOM D203-204

## SESSION 241

10:45 - 12:45

**Oral Presentation: Advances in antibiotic therapy of non-cystic fibrosis bronchiectasis****Chairs: D. Bilton (London, United Kingdom), E. Polverino (Barcelona, Spain)**

- 10:45 Long term azithromycin treatment: A randomised placebo-controlled trial in non-CF bronchiectasis; results from the BAT trial  
J. Altenburg, C. de Graaff, T. van der Werf, W. Boersma (Alkmaar, Groningen, The Netherlands) 1924
- 11:00 Multicenter, randomized, double-blind, placebo-controlled study (ORBIT 1) to evaluate the efficacy, safety, and tolerability of once daily ciprofloxacin for inhalation in the management of *pseudomonas aeruginosa* infections in patients with non-cystic fibrosis bronchiectasis  
D. Bilton, D. J. Serisier, A. Tony De Soya, R. Wolfe, P. Bruinenberg (London, Newcastle, United Kingdom; Brisbane, Australia; Los Angeles, Hayward, United States of America) 1925

## MONDAY SEPTEMBER 26

- 11:15 Airways reflux contributes to cough severity and airways inflammation in non-CF bronchiectasis  
P. Mandal, A. Morice, J. Chalmers, A. Hill (Edinburgh, Cottingham, United Kingdom) 1926
- 11:30 The relationship between airway bacterial load and airways inflammation in stable non-cystic fibrosis bronchiectasis  
J. D. Chalmers, P. Mandal, B. McHugh, M. Smith, C. Doherty, J. R. Govan, A. T. Hill (Edinburgh, United Kingdom) 1927
- 11:45 Dual release ciprofloxacin for inhalation (DRCFI) reduces sputum *pseudomonas aeruginosa* (*Pa*) density and delays time to infective pulmonary exacerbation in non-cystic fibrosis (CF) bronchiectasis (BE)  
D. J. Serisier, P. J. Thompson, H. Greville, J. Kolbe, P. R. Bruinenberg (Brisbane, Perth, Adelaide, Australia; Auckland, New Zealand; Hayward, United States of America) 1928
- 12:00 Efficacy and safety of ciprofloxacin dry powder for inhalation in patients with non-cystic fibrosis bronchiectasis  
R. Wilson, T. Welte, E. Polverino, A. De Soyza, H. W. Greville, A. E. O'Donnell, J. Alder, P. Reimnitz, B. Hampel (London, Newcastle upon Tyne, United Kingdom; Hannover, Wuppertal, Berlin, Germany; Barcelona, Spain; Adelaide, Australia; Washington, Montville, United States of America) 1929
- 12:15 Antimicrobial efficacy of ciprofloxacin dry powder for inhalation in patients with non-cystic fibrosis bronchiectasis  
J. Alder, R. Wilson, T. Welte, E. Polverino, A. De Soyza, H. Greville, A. O'Donnell, P. Reimnitz, B. Hampel (Montville, Washington, United States of America; London, Newcastle upon Tyne, United Kingdom; Hannover, Wuppertal, Berlin, Germany; Barcelona, Spain; Adelaide, Australia) 1930

ROOM G102-103

SESSION 242

10:45 - 12:45

## Poster Discussion: Tuberculosis in immunocompromised hosts

Chairs: D. Bumbacea (Bucharest, Romania), M. Sester (Homburg, Germany)

- P1931 HIV/TB in Belarus  
A. Astrauko, A. Skrahin, A. Skrahina (Minsk, Republic of Belarus)
- P1932 Experience from implementation of collaborative TB/HIV activities in Republic of Macedonia – Where did we go wrong and where do we go from here?  
D. Gudeva Nikovska, S. Talevski, H. Jankuloski (Skopje, FYROM)
- P1933 Bacteriological profile in new cases of TB-HIV coinfecting patients in Romania  
M. Dede, C. Tudose, I. Pele, L. Lihatchi, E. Ibraim (Bucharest, Romania)
- P1934 Multidrug-resistant tuberculosis (MDR-TB) and HIV co-infection in Romania  
L. Lihatchi, C. Tudose, I. Pele, M. Dede, E. Ibraim (Bucharest, Romania)
- P1935 Multidrug-resistant TB in children with HIV infection in Romania  
G. Murgoci, R. Murgoci, C. Marica, M. Tanasescu, G. Nini, H. Stavri, M. Mardarescu, M. Luminos (Bucharest, Arad, Romania)
- P1936 The risk of tuberculosis disease among HIV infected patients after 2 years of follow up  
E. Dantes, O. C. Arghir, C. Cambrea, M. Man, E. Borgazi, S. Rugina (Constanta, Cluj, Romania)
- P1937 Primary drug resistance in HIV/TB patients  
V. Zimina, I. Vasilyeva, A. Kravtchenko, F. Batirov, I. Viktorova (Moscow, Novokuznetsk, Russian Federation)
- P1938 The molecular-genetic methods in the express diagnostics of tuberculous pleurisy (PTB) in HIV-infected patients  
V. Zhuravlev, K. Vladimirov, I. Vasilieva (St. Petersburg, Russian Federation)
- P1939 Value of third sputum specimen for microscopic detection of pulmonary tuberculosis in HIV infected patients  
M. Marjani, P. Tabarsi, P. Baghaei, M. R. Masjedi, A. A. Velayati (Tehran, Islamic Republic of Iran)
- P1940 Adverse effects of treatment in HIV-associated tuberculosis patients in Iran  
P. Baghaei Shiva, P. Tabarsi, M. Marjani, M. R. Masjedi (Tehran, Islamic Republic of Iran)
- P1941 Prevalence of HIV seropositivity amongst tuberculosis patients at Rural Government Medical College Yavatmal – A five year prospective study  
B. Bhadke, A. Surjushe (Yavatmal, India)
- P1942 Negative predictive value of TST and IGRA in anti-TNF treated patients  
S. Campainha, T. Gomes, A. Carvalho, R. Duarte (Vila Nova de Gaia, Vila Real, Portugal)
- P1943 Performance of two interferon-gamma release assays (T-SPOT.TB and QuantiFERON-TB GOLD In Tube) increase diagnostic yield of tuberculin skin testing for detection of latent tuberculosis in patients with inflammatory bowel disease  
M. Arias-Guillen, R. de Francisco, S. Riestra, A. Pando, J. J. Palacios, P. Escalante, I. Perez-Martinez, J. Belda, L. Molinos, M. García-Clemente, L. Rodrigo, A. Prieto, P. Casan (Oviedo, Spain; Rochester, United States of America)
- P1944 The effect of anti TNF-alpha therapy on tuberculin skin test reaction  
I. Hanta, S. Ozbek, O. Baydar, S. Kuleci (Adana, Turkey)
- P1945 The incidence of tuberculosis in patients taking anti TNF alpha therapy  
C. Dogan, N. Kiral, S. Cömert, A. Fidan, B. Salepci, B. Caglayan (Istanbul, Turkey)

- P1946 Tumor nekrosis faktor-alfa blockers and tuberculosis – Analysis of the 6 years  
S. Börekçi, B. Duman, N. Mazican, K. Tascilar, B. Müsellim, G. Öngen, V. Hamuryudan (Istanbul, Turkey)
- P1947 QuantiFERON-TB GOLD vs. TST methods of detection tuberculosis infection in rheumatoid arthritis patients with previously TNF  $\alpha$  inhibitors treatment  
Z. I. Fratila, I. Iovan, D. Vancea (Timisoara, Romania)
- P1948 Pulmonary tuberculosis (PT) in patients taking the TNF-a inhibitor inflixinab (INF)  
P. Gavrilov, V. Zhuravlev, L. Archacova, S. Dolgikh (Saint-Petersburg, Russian Federation)

ROOM G104-105

SESSION 243

10:45 - 12:45

**Poster Discussion: Lung cancer: molecular pathology and functional genomics****Chairs: P. Schnabel (Heidelberg, Germany), S. Diederichs (Heidelberg, Germany)**

- P1949 Inhibition of hypoxia-induced phenotype alterations through epithelial-mesenchymal transition (EMT) in lung cancer by gene modulation of phosphorylation sites in tumor suppressor PTEN  
N. Hashimoto, Y. Hasegawa (Nagoya, Japan)
- P1950 Loss of orphan G protein coupled receptor GPRC5A is associated with metastatic disease and poor survival in patients with adenocarcinomas of the lung  
J. K. Hennigs, S. Minner, J. Müller, H. J. Baumann, C. Bokemeyer, G. Sauter, H. Klose (Hamburg, Germany)
- P1951 RAR $\beta$ 2 methylation level in blood for lung cancer assessment  
A. Ponomaryova, E. Rykova, N. Cherdyntseva, T. Skvortsova, A. Dobrodeev, A. Zav'yalov, S. Tuzikov, V. Vlassov, P. Laktionov (Tomsk, Novosibirsk, Russian Federation)
- P1952 Quantitative methylation profiles of multiple genes in patients with non-small cell lung cancer and its association with clinicopathological correlations  
M. Kontic, J. Stojsic, D. Jovanovic, V. Bunjevacki, S. Ognjanovic, S. Puumala, H. Nelson (Belgrade, Republic of Serbia; Minneapolis, Sioux Falls, United States of America)
- P1953 The risk of distant metastases and prognosis prediction in early stage squamous cell lung cancer (SqCLC) by means of 3 microRNAs expression assessment  
M. Skrzypski, R. Dziadziuszko, A. Szymanowska, E. Jassem, P. Czapiewski, W. Biernat, W. Rzyman, R. Pawlowski, J. Jassem (Gdansk, Poland)
- P1954 The clinical significance of plasma DNA quantification in NSCLC  
A. Szpechcinski, K. Maszkowska-Kopij, W. Kupis, J. Zaleska, E. Radzikowska, R. Struniawski, E. Puscinska, T. Orłowski, P. Sliwinski, K. Roszkowski-Sliz, J. Chorostowska-Wynimko (Warsaw, Poland)
- P1955 Analysis of clinically theranostic relevant genes, EGFR and KRAS, in subtypes of non-small cell lung cancer (NSCLC) patients  
M. Demes, H. Bartsch, S. B. Stefanie, S. Joachim, B. Servet, F. Norbert, F. E. Annette (Wiesbaden, Germany)
- P1956 Very early detection of small clones harbouring EGFR mutations in NSCLC by 2nd generation sequencing  
C. Vollbrecht, F. Mairinger, S. Trajanoski, I. Halbwedl, T. Maierhofer, G. Michelitsch, E. Stacher, M. Filipits, K. Schmid, J. Kollmeier, T. Mairinger, H. Popper (Senftenberg, Berlin, Germany; Graz, Vienna, Austria)
- P1957 Evaluation of highly sensitive PNA-LNA PCR clamp method for EGFR L858R mutation detection in lung adenocarcinoma patients  
M. Skronski, T. Tanaka, A. Szpechcinski, R. Langfort, T. Orłowski, K. Hagiwara, J. Chorostowska-Wynimko (Warsaw, Poland; Moroyama-machi, Japan)
- P1958 Evaluation of four different molecular methods for EGFR mutation analysis in exon 18, 19 and 21  
A. Streubel, A. Roth, S. Stephan-Falkenau, O. Landt, C. Götz, T. Mairinger (Berlin, Germany)
- P1959 Non-coding RNA as functional player and molecular marker in lung cancer  
M. Polycarpou-Schwarz, T. Gutschner, S. Grund, A. Warth, H. Zabeck, C. Hildenbrand, M. Baas, M. Meister, T. Muley, P. Schirmacher, H. Hoffmann, P. Schnabel, S. Diederichs (Heidelberg, Germany)
- P1961 Polymorphisms A1026G and G369C of CDKN1A/p21 and p53 genes in lung cancer  
A. I. Dmitrieva, I. A. Kuznetsova, S. S. Rakitin, V. V. Novitskiy (Tomsk, Russian Federation)
- P1962 Proteinase inhibition regulates the anti-tumor activity of PAI-1 towards lung and prostate cancer cells  
A. Rozy, M. Kedzior, J. Chorostowska-Wynimko, P. Jagus, A. Szpechcinski, E. Skrzypczak-Jankun, J. Jankun (Warsaw, Poland; Toledo, United States of America)
- P1963 Identification of p-stage I NSCLC patients with high risk of recurrence and poor prognosis by tumor marker index (TMI)  
T. Muley, H. Hoffmann, H. Dienemann, M. Thomas, F. Herth, M. Meister (Heidelberg, Germany)
- P1964 Expression profiling in hypoxic non-small cell lung cancer explants reveals a four-gene hypoxia signature  
K. Leithner, C. Wohlkoenig, E. Stacher, J. Lindenmann, F. M. Smolle-Jüttner, H. H. Popper, A. Hrzjenjak, A. Olschewski, H. Olschewski (Graz, Austria)
- P1965 Contribution of immunohistochemical (IHC) markers to the diagnosis of pulmonary carcinoids  
T. Zahel, A. Warth, E. Herpel, B. Goepfert, A. Stenzinger, S. Krysa, H. Hoffmann, P. Schirmacher, P. Schnabel (Heidelberg, Germany)
- P1966 Genetic polymorphism of alpha 1 antytrypsin and glutathione S transferase and lung cancer risk  
A. Catana, R. Popp, M. Pop, M. Porojan, V. Pop, A. Trifa, F. Petrisor, M. Farcas (Cluj Napoca, Romania)

## Poster Discussion: Progress in endoscopy for the diagnosis of lung cancer

Chairs: S. Ott (Berlin, Germany), M. Koslow (Tel Aviv, Israel)

- P1967 Quality matters in lung cancer diagnosis – Comparison of endobronchial cryobiopsy with conventional forceps biopsy  
U. Oltmanns, D. Rassl, M. Slade (Papworth Everard, United Kingdom)
- P1968 Bronchoscopic cryotechnique gains high diagnostic rate in submucosal tumor growth  
W. Grüning, S. Griff, H. Wurps, W. Ammenwerth, T. G. Blum, J. Kollmeier, N. Schönfeld, C. Boch, S. Stephan-Falkenau, T. Mairinger, T. Bauer (Berlin, Germany)
- P1969 Does routine use of EBUS-TBNA and EUS-FNA improve the accuracy of staging of non small cell lung cancer patients – A national tumor registry based study  
M. Krasnik, A. Mellemegaard, E. Jakobsen (Copenhagen, Odense, Denmark)
- P1970 Impact of endobronchial ultrasound guided transbronchial needle aspiration (EBUS-TBNA) in the evaluation of mediastinal adenopathy in lung cancer  
N. Coleman, A. Lavan, K. Hurley, R. Morgan (Dublin, Ireland)
- P1971 Evaluation of endobronchial ultrasound-guided needle aspiration selected samples – The point of view of pathology  
R. Zinsky, R. Henrich, B. Boeluekbas, J. Schirren, A. Fisseler-Eckhoff (Wiesbaden, Germany)
- P1972 Can mediastinoscopy after negative endosonography in lung cancer be omitted? Subanalysis of ASTER with focus on CT  
K. Tournoy, R. Rintoul, C. Dooms, E. Deschepper, J. Annema (Ghent, Leuven, Belgium; Cambridge, United Kingdom; Leiden, The Netherlands)
- P1973 Can mediastinoscopy after negative endosonography in lung cancer be omitted? Subanalysis of ASTER with focus on PET  
K. Tournoy, C. Dooms, R. Rintoul, E. Deschepper, J. Annema (Ghent, Leuven, Belgium; Cambridge, United Kingdom; Leiden, The Netherlands)
- P1974 Risk of lung cancer in patients with preinvasive bronchial lesions followed by autofluorescence bronchoscopy and chest computed tomography  
A. Mohamed, S. Kiyoshi, T. Fujiwara, W. Hironobu, H. Hoshino, S. Yoshida, M. Suzuki, K. Hiroshima, Y. Nakatani, A. Mohamed-Hussein, M. Elkouly, T. Mahfouz, I. Yochino (Assiut, Egypt; Chiba, Japan)
- P1975 Validation of diagnostic molecular markers in bronchial fluid for lung cancer  
M. Alfonso, N. Marina, B. Ruiz-Argüello, S. Pedrero, L. Garcia, M. Uribarri, S. Carrera, J. Algorta, G. Lopez-Vivanco, R. Zalacain (Baracaldo, Zamudio, Spain)
- P1976 Curette lavage fluid analysis of *EGFR*, *KRAS*, and *P53* mutations in lung cancer patients  
F. Yamaguchi, K. Fukuchi, S. Tazawa, H. Tateno, E. Kato, A. Wakabayashi, A. Tada, T. Iwasaki, M. Hayashi, Y. Thuchiya, J. Yamashita, N. Takeda, S. Tomita, F. Kokubu (Yokohama, Tokyo, Japan)
- P1977 Clinical utility of EGFR gene mutation analysis with cytological materials from bronchoscopy not histological materials  
K. Nakata, Y. Kotani, Y. Hatakeyama, N. Tomita, N. Hazeki, A. Sakashita, K. Kobayashi, Y. Funada, Y. Nishimura (Kobe, Japan)
- P1978 Prognostic impact of angiogenesis factors in bronchoscopic washing fluid from patients with non-small cell lung cancer  
A. Charpidou, C. Fevranoglou, M. Zontanos, I. Danos, P. Demertzis, I. Giozos, K. Syrigos (Athens, Greece)
- P1979 Does immediate cytological analysis at bronchoscopy lead to reduced number of biopsies?  
C. Eruchie, M. Manalo, B. Shambayati, P. Murray (Surrey, United Kingdom)
- P1980 The efficacy of cytology sampling in the diagnosis of suspected endobronchial lung cancer  
F. Shora, G. Haji, H. Ali, F. Bowen (London, United Kingdom)
- P1981 Relative contribution of cytological specimen type in the determination of lung cancer histologic identity – Analysis of one year's comparative data  
S. Michaelides, A. Emmanouelidou, G. Goulas, A. Lazaratou, D. Melemen, A. Blana, V. Handrinos (Athens, Greece)
- P1982 Liquid-based cytology in the diagnosis of pulmonary malignancy in bronchial brushings and washings  
B. Olejnicka, A. Dejmek, A. Westman, N. Zendeherokh (Trelleborg, Malmö, Sweden)
- P1983 Endobronchial ultrasound and fluoroscopy in the study of peripheral lung lesions  
A. Sánchez-Font, L. Giralt, R. Alcántara, J. Gimeno, L. Pijuan, I. Vollmer, J. Gea, V. Curull (Barcelona, Spain)
- P1984 Diagnosis of pulmonary nodules localized beyond the range of standard bronchifiberscope – Preliminary results  
S. Skoczynski, G. Brozek, W. Pierzchala (Katowice, Poland)



ROOM E104-106

SESSION 245

10:45 - 12:45

**Poster Discussion: Mechanical ventilation and lung injury: new advances****Chairs: A. Torres (Barcelona, Spain), P. Rocco (Rio de Janeiro, Brazil)**

- P1985 Late-breaking abstract: High flow oxygen therapy decreases endotracheal intubation requirement in patients with ALI or ARDS  
G. Schnell, C. Andrejak, B. Lamia, B. Toublanc, J. F. Muir, A. Cuvelier, V. Jounieaux (Amiens, Rouen, France)
- P1986 *In vitro* performance of an improved collapsible holding chamber (CHC) for the delivery of bronchodilators to patients receiving mechanical ventilation  
M. Nagel, V. Avvakoumova, R. Ali, C. Doyle, J. Mitchell (London, Canada)
- P1987 Comparisons of predictive performance of breathing pattern variabilities measured during T-piece, automatic tube compensation and pressure support ventilation for weaning ICU patients from mechanical ventilation  
M. Y. Bien, Y. R. Kou, Y. S. Lin, Y. L. Yang, C. H. Shih (Taipei, Taiwan)
- P1988 High-frequency oscillatory ventilation – A safe procedure for COPD patients?  
S. Pulletz, U. Achtzehn, A. Pechmann, E. Schmidt, M. Quintel, N. Weiler, I. Frerichs (Kiel, Chemnitz, Göttingen, Germany)
- P1989 Efficacy of a ventilator bundle for the prevention of the ventilator-associated pneumonia  
F. Chertcoff, M. Blasco, C. Giuffre, L. Maldonado, S. Verbanaz, E. Soloaga, E. Descotte, E. Efron (Buenos Aires, Argentina)
- P1990 Effects of N-acetylcysteine in lipopolysaccharide-induced acute lung injury in the rat: Treatment after acute lung injury  
J. S. Choi, H. S. Lee, K. H. Seo, J. O. Na, Y. H. Kim (Cheonan, Republic of Korea)
- P1991 C-reactive protein as a predictor of mortality in patients with severe sepsis in intensive care unit  
Z. Karakurt, O. Yazicioglu Mocin, O. Devran, N. Adiguzel, G. Gungor, M. Kalamanoğlu Balci, E. Oz, A. Yilmaz (Istanbul, Turkey)
- P1992 Mechanical properties of ALI/ARDS lung may be heterogenous  
M. Cressoni, D. Febres, C. Chiurazzi, G. Elisabetta, A. Marino, F. Y. Romano, M. Brioni, E. Carlesso, D. Chiumello, L. Gattinoni (Milan, Italy)
- P1993 Lactate and lactate clearance were associated with higher mortality in patients with septic shock  
P. Kittivoravitkul, A. Wattanatham, A. Wongs (Bangkok, Thailand)

ROOM E102

SESSION 246

10:45 - 12:45

**Poster Discussion: Genetic and molecular background in pulmonary fibrosis****Chairs: B. Crestani (Paris, France), J. Behr (Bochum, Germany)**

- P1994 Mutations in SFTPC, SFTPA2 and TERT explain 60% of familial pulmonary fibrosis and correlate to specific disease phenotypes  
C. van Moorsel, J. van der Vis, M. van Oosterhout, H. Ruven, P. de Jong, W. van Es, J. van den Bosch, J. Grutters (Nieuwegein, Utrecht, The Netherlands)
- P1995 Association between polymorphisms in the P53 and P21 genes and IPF  
N. Korthagen, C. van Moorsel, K. Kazemier, J. Grutters (Nieuwegein, Utrecht, The Netherlands)
- P1996 Genetic variability in the IL1RN gene and the balance between IL1-Ra and IL-1 $\beta$  in IPF  
N. Barlo, C. van Moorsel, N. Korthagen, M. Heron, G. Rijkers, H. Ruven, J. van den Bosch, J. Grutters (Nieuwegein, The Netherlands)
- P1997 The relationship of IL-4 cytokine gene polymorphisms, HRCT and histopathological score in patients with idiopathic pulmonary fibrosis  
M. Vasakova, M. Sterclova, R. Matej, L. Kolesar, J. Skibova, I. Striz (Prague, Czech Republic)
- P1998 Familial idiopathic pulmonary fibrosis and “genetic anticipation”  
C. Ravaglia, S. Tomassetti, G. Casoni, M. Romagnoli, C. Gurioli, C. Gurioli, S. Piciucchi, V. Poletti (Forlì, Italy)
- P1999 Association of single nucleotide polymorphisms in 4 genes (VDR, COL1A1, CALCR and BGLAP) with susceptibility to steroid osteoporosis in patients with idiopathic pulmonary fibrosis (IPF)  
A. Ulitina, D. Dzadzua, L. Novikova, I. Pavlenko, J. Ilkovich, M. Dubina (Saint-Petersburg, Russian Federation)
- P2000 The genetic polymorphism of metalloproteinases MMP2, 7, 9 and MMP inhibitor TIMP2 in sarcoidosis  
W. J. Piotrowski, P. Górski, T. Pietras, J. Szemraj (Lodz, Poland)
- P2001 Dose-dependent pro- or anti-proliferative effects of calcineurin inhibitors in bronchiolitis obliterans following allogeneic stem cell transplantation  
K. Hostettler, J. Halter, D. Lardinois, M. Roth, M. Tamm (Basel, Switzerland)
- P2002 Enhanced expression of Fas ligand (FasL) in fibrotic interstitial lung diseases (ILDs). The possible role of membrane-bound FasL form  
P. Kopinski, A. Dyczek, B. Balicka-Slusarczyk, G. Przybylski, J. Chorostowska-Wynimko, A. Szpechcinski, T. Iwaniec, K. Szablowska, J. Szczeklik (Bydgoszcz, Krakow, Warsaw, Poland)

## MONDAY SEPTEMBER 26

- P2003 Heme oxygenase-1 induced by quercetin attenuates TGF- $\beta$ -stimulated collagen production in fibroblasts  
T. Kawabe, T. Nakamura, M. Matsushima, Y. Hayashi, M. Shibasaki, K. Imaizumi, N. Hashimoto, K. Shimokata, Y. Hasegawa (Nagoya, Japan)
- P2004 Different expression pattern of endothelin receptors in primary human lung fibroblasts derived from idiopathic pulmonary fibrosis compared to healthy controls  
K. Hostettler, J. Zhong, M. Tamm, D. Lardinois, M. Roth (Basel, Switzerland)
- P2005 Role of phosphatidylinositol-3-kinase (PI3K) in TGF- $\beta$ -induced proliferation and differentiation of human lung fibroblasts into myofibroblasts  
E. Conte, M. Fruciano, E. Fagone, E. Gili, M. Iemmolo, N. Crimi, C. Vancheri (Catania, Italy)
- P2006 Inhibition of TGF- $\beta$  1-induced extracellular matrix production in primary human pulmonary fibroblasts by rapamycin  
Y. Gao, H. P. Dai, X. F. Xu, K. Ding (Beijing, China)
- P2007 Familial cases of idiopathic pulmonary fibrosis: Clinical observation  
L. Novikova, Y. Ilkovich, M. Ilkovich (Saint-Petersburg, Russian Federation)
- P2008 Paraquat-induced epithelial-mesenchymal transition: Role of Rac1b/Akt/ Twist  
S. Yongchun, Z. Xiaohong, Y. Ting, W. Tao, W. Fuqiang (Chengdu, China)
- P2009 The prevalence of neoplastic transformation in idiopathic pulmonary fibrosis (IPF) lungs. A report from a transplanted IPF population  
E. Balestro, E. Rossi, F. Lunardi, N. Nannini, M. Loy, F. Rea, M. Saetta, F. Calabrese (Padua, Italy)

ROOM D201-202

SESSION 247

10:45 - 12:45

## Poster Discussion: Advances in lung function testing from infancy to adulthood

Chairs: P. Aurora (London, United Kingdom), E. Lombardi (Florence, Italy)

- P2010 Lung growth and ventilation inhomogeneity in health  
S. Lum, S. Sonnappa, P. Gustafsson, A. Wade, P. Aurora, A. F. Hoo, J. Stocks (London, United Kingdom; Skovde, Sweden)
- P2011 Specific airway resistance is overestimated during tidal breathing vs panting in healthy children  
L. Coutier, C. Bonabel, B. Demoulin, T. LeTuan, I. Ioan, S. Varechova, C. Schweitzer, F. Marchal (Vandoeuvre, France)
- P2012 Impaired lung function in children born preterm is related to severity of neonatal lung disease  
K. M. Logie, J. T. D. Gibbons, S. J. Simpson, A. C. Wilson, J. J. Pillow, G. L. Hall (Perth, Australia)
- P2013 Interpretation of passive respiratory mechanics in infants: Should we normalise by body weight?  
T. T. D. Nguyen, A. F. Hoo, S. Lum, A. Wade, J. Stocks (London, United Kingdom)
- P2014 Tracking of lung function obtained by whole-body plethysmography in infants and children with cystic fibrosis (CF)  
R. Kraemer, K. Modelska, A. Mashkouri Najafi, E. Stadlober, S. Gallati (Bern, Switzerland; Graz, Austria)
- P2015 Pressure oscillations after airway interruption pre- and post-bronchodilator in wheezy preschool children  
D. Wertheim, L. Symes, C. Olden, P. Bridge, N. Beydon, P. Seddon (Kingston, Brighton, London, United Kingdom; Paris, France)
- P2016 Cough flow volume profile in ataxia telangiectasia  
D. Vilozni, M. Lavie, Y. Berkun, A. Nissenkorn, Y. Banet Levi, R. Somech, O. Efrati (Ramat-Gan, Israel)
- P2017 The maximum oxygen consumption in children with asthma and/or obese children: A multi purpose assessment  
I. Benfatto, E. Bianchi, M. Tubaro, F. Valent, M. Canciani (Udine, Italy)
- P2018 Exercise induced bronchoconstriction and dyspnoea in asthmatic children  
G. Dib Nehmé, C. Schweitzer, S. Varechova, M. Poussel, C. Chone-Bonabel, F. marchal (Vandoeuvre, France)
- P2019 Agreement between interrupter resistance and spirometry in a large population of asthmatic children  
N. Beydon, B. Mahut, M. Lucia, H. Guillo, M. C. La Rocca, N. Medjahdi, M. Koskas, M. Boulé, C. Delclaux (Paris, France)
- P2020 Bench test of an O<sub>2</sub>/CO<sub>2</sub> sensor based MBW system using a lung model  
F. Singer, C. Abbas, E. Wiklund, P. Robinson, P. Latzin, P. Gustafsson (Bern, Switzerland; Skoevde, Sweden; Westmead, Australia)
- P2021 Reference data transition of whole-body plethysmography from infancy to childhood  
R. Kraemer, A. Mashkouri Najafi, E. Stadlober (Berne, Switzerland; Graz, Austria)
- P2022 Comparison of a new nitrogen multiple breath washout method to mass spectrometer SF6 washout in cystic fibrosis subjects  
E. Viklund, A. Lindblad, P. Robinson, B. Houlzt, L. Bergh, M. Rosberg, P. Gustafsson (Skövde, Gothenburg, Sweden; Sydney, Australia)
- P2023 Excluding extreme breaths from analysis can change conductive airway ventilatory inhomogeneity by over 25% in cystic fibrosis  
N. Al-Khathlan, R. Garipov, J. Owers-Bradley, E. Gaillard, C. Beardsmore (Leicester, Nottingham, United Kingdom)
- P2024 Double tracer gas single breath washout – Comparison with conventional lung function tests in children with and without cystic fibrosis  
F. Singer, C. Abbas, G. Stern, E. Kieninger, O. Fuchs, N. Regamey, P. Gustafsson, C. Casaulta, U. Frey, P. Latzin (Bern, Basel, Switzerland; Skoevde, Sweden)

- P2025 Quality control of spirometry in children: Can ERS/ATS criteria replace visual inspection?  
U. Krämer, C. Müller-Brandes, M. Gappa, G. Seitner-Sorge, A. von Berg, A. Schuster, C. Beckmann, S. Illi, M. Wisbauer, D. Berdel (Düsseldorf, Wesel, Hannover, Munich, Germany)
- P2026 Relationship between lung function using forced oscillation technique (FOT) with recent symptoms in young children with asthma  
A. Albloushi, J. Park, S. Stick, G. Hall (Perth, Australia)
- P2027 In vitro validation of nitrogen multiple breath washout using ultrasonic equipment  
S. Fuchs, C. Buess, M. Gappa (Wesel, Germany; Zurich, Switzerland)

## HALL 2-1

## SESSION 248

12:50 - 14:40

## Thematic Poster Session: Acute respiratory failure

Chairs: P. Pelosi (Genoa, Italy), T. Vassilakopoulos (Athens, Greece)

- P2028 Comparison between the transcutaneous carbon dioxide tension at the infraclavicular site with the arterial carbon dioxide tension  
P. Chhajed, P. Chaudhari, C. Tulasigeri, A. Kate, R. Kesarwani, J. Leuppi, F. Baty (Mumbai, NaviMumbai, India)
- P2029 Post operative surgical patients can be successfully managed using the target oxygen saturation scheme with the BTS emergency oxygen guidance  
A. Davison, A. Woolf, S. Tucker, S. Ward, L. Ward (Southend on Sea, United Kingdom)
- P2030 Continuous intraarterial blood pH monitoring in rabbits with acid base disorders  
W. Jin, J. Jiang, Y. Song, C. Bai (Shanghai, China)
- P2031 A preliminary study of the prevalence of hypoxaemia, hyperoxaemia, hypercapnia and acidosis in hospital blood gas specimens  
R. O'Driscoll, A. Rudenski, P. Turkington, L. Howard (Salford, London, United Kingdom)
- P2032 Acoustic respiratory monitoring (ARM) of wheeze (Wz) and cough (C) in the pediatric emergency department (PED)  
S. Kharasch, A. Gileles-Hillel, I. Omari, V. Kharasch, E. Kerem (Jerusalem, Israel; Boston, United States of America)
- P2033 The use of plasma n-terminal pro B-type natriuretic peptide (proBNP) concentrations in differential diagnosis of comorbidity pulmonary patients  
P. Kapisyzi, D. Argjiri, A. Mitre, J. Beli, A. Aliko, E. Shehu, R. Kore, Y. Vakefliu, H. Tafa (Tirana, Albania)
- P2034 Comparison of computed tomography features of acute phase of cardiogenic pulmonary edema and acute lung injury  
K. Komiya, H. Ishii, F. Okada, K. Satoh, J. I. Kadota (Yufu, Takamatsu, Japan)
- P2035 The causes of hemoptysis and lung hemorrhage in patients with pulmonary sarcoidosis  
O. Baranova, V. Molodtsova, A. Speranskaja (Saint-Petersburg, Russian Federation)
- P2036 Recognizing fatal pulmonary embolism in young adults with simple clinical measurements  
O. Fesenko, A. Glechikov (Moscow, Russian Federation)
- P2037 Severe airway response associated with anaphylactic shock in allergic Brown Norway rats  
G. Barthel, B. Demoulin, C. Montémont, F. Zheng, J. Davidson, F. Marchal, M. Paul-Michel (Vandoeuvre-Les-Nancy, Nancy, France)
- P2038 Follow-up and educational results of bed head lift in intensive care unit  
S. Solmaz, R. Sancar, N. Örnek, R. Evin, O. Moçin, C. Saltürk, S. Bati Kutlu, Z. Karakurt (Istanbul, Turkey)
- P2040 Successful use of interventional lung assist device in a patient with near fatal asthma  
T. Laura, M. Stephen (Sunderland, United Kingdom)
- P2041 Inhalation of activated recombinant factor VII to treat pulmonary hemorrhage in a patient with cystic fibrosis  
C. Marcu, R. Bals, A. Groeschel, C. Lensch, J. Woerner, S. Faendrich (Homburg, Germany)
- P2042 Enhanced expression of Robo4 ameliorates LPS-induced acute lung injury in mice  
X. Wu, Y. Song, X. Zhu, X. Fang, C. Bai (Shanghai, China)
- P2043 Expression of osteopontin in the lung tissue of acute lung injury rats and the influence of osteopontin on the expression of TNF- $\alpha$  and IL-10  
W. Wang, X. Fan (Luzhou, China)
- P2044 The role of osteopontin in the pulmonary fibrosis caused by acute lung injury induced by lipopolysaccharide in rats  
W. Wang, X. Fan (Luzhou, China)
- P2045 A prospective evaluation of different anthropometric height estimation formula  
S. Guinard, Z. Chiche, J. Martin, E. l'her (Brest, France)
- P2046 "Normotension" on admission to the emergency department affects outcome of patients with acute cardiogenic pulmonary edema (ACPE)  
V. Rosti, C. Travierso, F. Piffer, S. Aliberti, C. Bonino, V. Monzani, A. Voza, D. Camisa, S. Fusco, M. Barchetti, F. Molinaro, G. Petrelli, R. Cosentini, A. M. Brambilla (Milan, Monza, Milan, Melegnano, Milan, Faenza, Sassuolo, Turin, San Benedetto del Tronto, Italy)
- P2047 A metabonomic approach to prognostic evaluation of ALI by high-resolution nuclear magnetic resonance (HR NMR) spectroscopy  
X. Wang, W. Chen, X. An, D. Yang, F. Chen, C. Bai (Shanghai, China)

## MONDAY SEPTEMBER 26

HALL 2-2

SESSION 249

12:50 - 14:40

**Thematic Poster Session: Intensive care outcome****Chairs: S. Orfanos (Haidari, Greece), T. Welte (Hannover, Germany)**

- P2048 Late-breaking abstract: Improvements in compliance of resuscitation bundles and achievement of end points after an educational program on the management of severe sepsis and septic shock  
Y. Ko, S. Y. Lim, G. Y. Suh, K. Jeon (Seoul, Republic of Korea)
- P2049 Prevalence and prognosis of critically ill patients with COPD between 1998 and 2008  
G. C. Funk, P. Bauer, O. C. Burghuber, A. Fazekas, S. Hartl, B. Metnitz, P. Metnitz (Vienna, Austria)
- P2050 Acute and chronic term results of kyphoscoliotic patients with acute respiratory failure treated in intensive care unit (ICU)  
G. Güngör, Z. Karakurt, N. Adiguzel, O. Yazicioglu Moçin, M. Balci, C. Saltürk, H. Yilmaz, A. Öztin, T. Yarkin (Istanbul, Erzurum, Turkey)
- P2051 Characteristics and outcome of COPD patients with an acute exacerbation admitted to a respiratory ICU  
M. Guerrero, J. R. Badia, M. Ferrer, A. Torres (Barcelona, Spain)
- P2052 COPD under invasive mechanical ventilation, in-hospital mortality rate: A retrospective study  
P. Garrido, S. Carreira, A. Gonçalves, F. Paula, L. Ferreira, F. Froes, L. Telo (Lisbon, Portugal)
- P2053 pH – and serum sodium level as an important predictor of mortality in acute exacerbation of COPD  
J. K. Samaria, H. Kumar (Varanasi, India)
- P2054 Is there a difference in outcome according to etiology of COPD exacerbation in patients admitted to an ICU?  
F. Monteiro, K. Cunha, R. Silva, F. TodoBom, C. Lopes, P. Azevedo, J. Monteiro, G. Brum, A. Bugalho Almeida (Lisbon, Faro, Portugal)
- P2055 Intensive care results and costs of advanced age patients with respiratory failure: 3 years cohort study  
Z. Karakurt, N. Adigüzel, D. Özgül, G. Güngör, O. Yazicioglu Moçin, M. Kalamanoğlu Balci, S. Baylan, C. Saltürk, A. Yilmaz (Istanbul, Turkey)
- P2056 Mortality and cost analysis of community acquired pneumonia cases requiring intensive care unit follow up according to seasons  
O. Yazicioglu Mocin, G. Cetintas, C. Salturk, N. Adiguzel, G. Gungor, H. Ozkan Yilmaz, M. Kalamanoğlu Balci, N. Ornek, D. Ozgul, B. Uysal, S. Bati Kutlu, Z. Karakurt, A. Yilmaz (Istanbul, Turkey)
- P2057 Differences in pulmonary function tests between acute respiratory distress syndrome of pulmonary and extrapulmonary etiology  
B. Llorente Ruiz, E. Alonso Peces, M. Vázquez Mezquita, O. Navarrete Isidoro, C. Pintado Delgado, A. Ferreira Moreno, J. Flores Segovia, F. Canseco González (Alcalá de Henares, Spain)
- P2058 Factors affecting mortality in a respiratory intensive care unit  
P. Ozdemir, B. Basarik, M. S. Tasbakan, A. Gurgun, O. Kacmaz Basoglu, F. Bacakoglu (Izmir, Turkey)
- P2059 The follow-up of cancer patients with acute respiratory failure in an intensive care unit  
O. Yazicioglu Mocin, Z. Karakurt, G. Gungor, N. Adiguzel, C. Salturk, M. Kalamanoğlu Balci, H. Ozkan Yilmaz, G. Cetintas, T. Yarkin (Istanbul, Turkey)
- P2060 Intensive care outcomes in patients with diffuse fibrotic parenchymal lung diseases  
G. Güngör, C. Saltürk, N. Adigüzel, O. Moçin, H. Yilmaz, M. Balci, G. Çetintas, Z. Karakurt (Istanbul, Turkey)
- P2061 Health-related quality of life after automated or protocol-based weaning from mechanical ventilation  
D. Schädler, L. Kaiser, B. Malchow, G. Elke, S. Pulletz, I. Frerichs, J. Scholz, T. Kuchler, N. Weiler (Kiel, Germany)
- P2062 Validation of the 3CPO-score in a prospective cohort of acute cardiogenic pulmonary edema (ACPE) patients  
V. Rosti, C. Travierso, S. Aliberti, F. Piffer, T. Maraffi, V. Monzani, F. Stea, A. Di Nardo, F. Furlan, A. Maffei, C. Minelli, A. Kostihova, R. Cosentini (Milan, Monza, Milan, Bari, Bergamo, Milano, Napoli, Como, Italy)
- P2063 Validation of treatment failure criteria of nosocomial pneumonia in ICU  
M. Esperatti, M. Ferrer, L. M. Saucedo, V. Giunta, A. Torres (Barcelona, Spain; Milan, Italy)
- P2064 Reversibility of swallowing dysfunction in tracheotomized patients  
P. Ceriana, C. Fracchia, C. Fassio, C. Cazzani, B. Cattani, M. Dichiarante, R. Bellazzi, S. Nava (Pavia, Montescano, Bologna, Italy)

HALL 2-3

SESSION 250

12:50 - 14:40

**Thematic Poster Session: Noninvasive ventilation in the acute setting: education, organisation, H1N1, paediatrics, weaning, diagnostic procedures and special considerations****Chairs: R. Scala (Arezzo, Italy), D. Dellweg (Schmallenberg, Germany), M. Vukcevic (Belgrade, Republic of Serbia), N. Hart (London, United Kingdom)**

- P2065 A five-year series on the use of noninvasive ventilation as a weaning tool from invasive ventilation  
A. Kee, J. Phua, Y. Huang, E. Dela Pena, E. Santiago, J. Santos, S. Palani, R. Capistrano, J. Dizon, T. K. Lim (Singapore, Singapore)

- P2066 Techniques of managing difficult to wean acute NIV: Comparison between prolongation of time off ventilator and pressure withdrawal  
Y. Noeman-Ahmed (Newham, United Kingdom)
- P2067 A new weaning and long term ventilation service – One year on  
V. Ford, R. Angus, B. Chakrabarti, N. Duffy, J. O'Reilly, K. Ward, J. Bennett, V. Molyneaux, J. Walsh, J. Cheney, R. Parker (Liverpool, United Kingdom)
- P2068 Noninvasive positive pressure ventilation in burn patients  
J. Haddad, I. Rahmani, H. Oueslati, M. Bouaouaja, L. Gharsallah, B. Gasri, I. Jami, A. Mokline, A. A. Messadi (Tunis, Tunisia)
- P2069 Efficacy of noninvasive positive pressure ventilation during fiberoptic bronchoscopy: Bi-level vs CPAP valve  
T. Pinto, M. Gonçalves, A. Magalhães, J. C. Winck (Porto, Portugal)
- P2070 NIV for ventilatory support during percutaneous endoscopic gastrostomy (PEG) in ALS patients with respiratory failure  
M. Vukcevic, M. Bjelovic, Z. Stevic, B. Bulajic Subotic, T. Radosavljevic, Z. Vladimir (Belgrade, Belgrad, Republic of Serbia)
- P2071 Safety of percutaneous endoscopic gastrostomy under sedation with propofol in patients with amyotrophic lateral sclerosis  
W. Strobel, K. Schweikert, N. Schaub (Basel, Switzerland)
- P2072 Noninvasive ventilation (NIV) after lung resection (LR) to prevent respiratory complications (RCs) in COPD patients (pts) (POPVNI trial)  
C. Lorut, A. Lefebvre, B. Planquette, H. Clavier, N. Santelmo, A. Bernard, F. Bellenot, J. F. Regnard, M. Riquet, P. Magdeleinat, G. Meyer, G. Meyer, N. Roche, G. Huchon, J. Coste, A. Rabbat (Paris, Strasbourg, Dijon, Pontoise, France)
- P2073 The provision of an acute paediatric NIV service at a district general hospital  
N. Iqbal, S. Moledina, T. Ninan (Birmingham, United Kingdom)
- P2074 The use of non-invasive ventilation after liver transplantation in pediatric patients: Changes in the need for reintubation  
K. Murase, C. Yuichi, C. Yoshimura, T. Handa, T. Oga, H. Segawa, M. Mishima, K. Fukuda, S. Uemoto, K. Chin (Kyoto, Japan)
- P2075 Non-invasive-ventilation in H1N1 acute respiratory failure in emergency department: A case series  
E. Prina, F. Nicoli, G. Marullo, V. Monzani, S. Aliberti, F. Piffer, C. Mandelli, A. M. Brambilla, R. Cosentini (Milan, Italy)
- P2076 The application of bi-level positive airway pressure in patients with severe pneumonia and acute respiratory failure caused by influenza A (H1N1) virus  
L. Wei, L. Peng (Chang Chun, China)
- P2077 Effect of adherence to hospital NIV guidelines on the outcomes of type II respiratory failure patients  
Y. Noeman-Ahmed, S. Vearncombe, E. Chung (Plaistow, United Kingdom)
- P2078 An audit of NIV in COPD patients in a respiratory and coronary care unit  
S. Tsim, P. Kewin, S. Davidson (Glasgow, United Kingdom)
- P2079 Can repeated educational interaction improve doctors' knowledge of NIV management?  
W. Kent, S. Zaidi, P. Fairclough, T. Bongers (Southport, United Kingdom)
- P2080 Effect of a structured education programme on the documentation of "ceiling of care" for patients with acute hypercapnic respiratory failure (AHRF) requiring non invasive ventilation (NIV)  
S. Bikkalla, B. Barker, A. Thomas, B. Beauchamp, A. Ali, M. Aslam, D. Banerjee, R. Mukherjee (Birmingham, United Kingdom)
- P2081 Non-invasive ventilation (NIV) practices in Swiss adult ICUs  
I. Salvadè, G. Domenighetti, A. Ognà, M. Maggiorini, H. U. Rothen, P. Jolliet (Locarno, Zurich, Bern, Lausanne, Switzerland)
- P2082 Non-invasive ventilation as ceiling of ventilatory care (NIVc) in a respiratory intermediate care unit (RICU)  
A. S. Oliveira, S. Salgado, C. Nunes, F. Oliveira, C. Bárbara (Lisbon, Portugal)
- P2083 Respiratory intermediate care unit (RICU) – What are we doing?  
S. Salgado, A. S. Oliveira, C. Nunes, F. Oliveira, C. Bárbara (Lisbon, Portugal)
- P2084 The introduction of a respiratory high care unit in a district general hospital  
L. Succony, H. Cook, V. Grinstead, U. Hoda, T. Win (Stevenage, United Kingdom)

HALL 2-4

SESSION 251

12:50 - 14:40

**Thematic Poster Session: New evidence in home mechanical ventilation**

**Chairs:** J. Nasilowski (Warsaw, Poland), E. Ekkernkamp (Freiburg, Germany), M. Chatwin (London, United Kingdom), A. Cuvelier (Rouen, France)

- P2085 Hemodynamic effects of non-invasive ventilation in patients with obesity-hypoventilation syndrome  
O. Castro-Añón, R. Golpe, L. A. Pérez-de-Llano, M. J. López, E. Escalona, R. Pérez-Fernández, A. Testa, A. González Quintela (Lugo, Santiago of Compostela, Spain)

MONDAY  
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## MONDAY SEPTEMBER 26

- P2086 The effects of non-invasive bilevel positive airway pressure ventilation on insulin resistance in patients with obstructive sleep apnea  
O. Georgiev, D. Petrova, R. Bilyukov, T. Mondeshki (Sofia, Bulgaria)
- P2087 Prevalence of patient-ventilator asynchronies and effects on sleep quality in neuromuscular patients using long term non-invasive ventilation  
G. Crescimanno, M. Canino, O. Marrone (Palermo, Italy)
- P2088 Evaluation of inspiratory rise time versus resistances of four home ventilators  
A. Perel Jaillet, C. Letellier, D. Bounoiare, A. Cuvelier, J. F. Muir (Saint Etienne du Rouvray, Rouen, France)
- P2089 Effects of a nasal high-flow system (nHF) on tidal volume, breathing rate, minute volume and I/E-ratio in healthy volunteers and patients with COPD  
J. Bräunlich, M. Köhler, H. J. Seyfarth, S. Hammschmidt, H. Wirtz (Leipzig, Germany)
- P2090 Validation design for a method to determine respiratory resistance and compliance in non-sedated patients  
K. Lopez-Navas, H. Gehring, U. Wenkebach (Luebeck, Germany)
- P2091 Adaptation of children with spinal muscular atrophy type 1 and 2 to non invasive ventilatory support  
T. Salerno, M. Pavone, M. B. Chiarini Testa, F. P. Rossi, E. Verrillo, S. Soldini, R. Cutrera (Rome, Italy)
- P2092 Long term home mechanical ventilation: 9 year experience  
Z. Karakurt, O. Yazicioglu Mocin, N. Adiguzel, D. Ozgul, G. Gungor, D. Seker, R. Nazli, Y. Konuk, S. Solmaz, T. Yarkin (Istanbul, Turkey)
- P2093 A 20 year experience of home non-invasive ventilation (NIV) in a district general hospital and the "growing" problem of obesity  
M. Sidhu, A. Davison, D. Powrie, M. Ali, A. Patel, L. Ward, N. Chu (Essex, United Kingdom)
- P2094 Comparing a nasal high-flow therapy with single and double sided application (TNiOxy) on breathing and gas exchange at stable hypercapnic respiratory failure COPD  
N. Georg, D. Ulrike, F. Karl-Josef, R. Karl-Heinz, S. Hartmut (Hagen, Germany; Baltimore, United States of America)
- P2095 Home mechanical ventilation in chronic respiratory diseases: An experience from a pediatric semi-intensive respiratory care unit  
F. P. Rossi, M. Pavone, E. Verrillo, A. Schiavino, M. B. Chiarini Testa, M. G. Paglietti, S. Soldini, R. Cutrera (Rome, Italy)
- P2096 Lung function values as predictors for outcome during non-invasive ventilation in COPD patients  
D. Bartusek, J. Varga, A. Bikov, T. Komaromi, G. Losonczy (Budapest, Hungary)
- P2097 A pilot study of treatment compliance in home non-invasive ventilation  
L. Cheng, V. Chan, C. M. Chu (Kowloon, Hong Kong)
- P2098 Predictive factors for the tolerance of non-invasive ventilation in amyotrophic lateral sclerosis patients  
D. Gonzalez, J. Sancho, E. Servera, P. Bañuls, J. Marín (Valencia, Spain)
- P2099 Lower SNIP value is correlated to the need of intubation in amyotrophic lateral sclerosis  
P. Carratù, A. Cassano, G. D'Alba, V. N. Quaranta, R. Capozzo, F. Gadaleta, S. Dragonieri, I. L. Simone, G. Logroscino, O. Resta (Bari, Italy)
- P2100 Exploring reasons for the pattern of non-invasive ventilation (NIV) use among motor neurone disease (MND) patients: An interpretative phenomenological analysis  
H. Ando, B. Chakrabarti, C. Young, E. Thornton, R. Angus (Liverpool, United Kingdom)
- P2101 NIV for MND in the West of Scotland assisted ventilation service (WoSAVS)  
P. Kewin, S. Tsim, J. McGlone, A. Clarke, S. Banham, S. Davidson (Glasgow, United Kingdom)
- P2102 Evaluation of different patterns of high frequency spinal cord stimulation (HF-SCS) to activate the inspiratory muscles  
K. Kowalski, A. DiMarco (Cleveland, United States of America)
- P2103 Mechanically assisted cough in amyotrophic lateral sclerosis: Effect on vital capacity decline and timing of non invasive ventilation onset  
E. Meleo, A. Conte, F. Mormile, M. Scapigliati, F. Macagno, A. Zito, M. Sabatelli, S. Valente (Rome, Italy)

HALL 2-5

SESSION 252

12:50 - 14:40

### Thematic Poster Session: Respiratory and skeletal muscle assessment in health and disease

**Chairs:** A. Aliverti (Milan, Italy), C. Spengler (Zurich, Switzerland), J. Gea (Barcelona, Spain), S. Verges (Echirolles, France)

- P2104 The effects of inspiratory muscle training on breathing mechanics during fixed load cycling exercise  
D. Mills, G. Sharpe, M. Johnson, Y. Barnett (Nottingham, United Kingdom)
- P2105 Chest wall volume changes during normocapnic hyperpnoea with constant breathing pattern  
S. K. Illi, S. Hostettler, E. Mohler, A. Aliverti, C. M. Spengler (Zurich, Nottwil, Switzerland; Milan, Italy)
- P2106 Chest wall kinematics during different levels of positive end-expiratory pressure in cystic fibrosis children  
G. A. de Freitas Fregonezi, S. Brillhante, M. Gurgel, R. Florencio, K. Soares, F. A. Lavezzo Dias, V. Resqueti, A. D. F. Dornelas de Andrade (Parnamirim, Recife, Brazil)

- P2107 Influence of aerobic exercise training on respiratory muscle strength in obese Thai women  
W. Khrisanapant, O. Pasurivong, T. Suthitum, J. Namarmarth (Khon Kaen, Thailand)
- P2108 Inspiratory muscle strength training: A pilot study on laryngeal movements  
A. Sandnes, T. Andersen, T. Halvorsen, J. H. Heimdal, T. Karlsen, T. A. Ellingsen, M. Hilland, O. Røksund (Bergen, Norway)
- P2109 Diaphragm and quadriceps muscle fatigue in self-paced cycling exercise of different durations  
E. C. Eberle, T. Wüthrich, C. M. Spengler (Zurich, Switzerland)
- P2110 Dyspnoea, respiratory muscle strength and hyperventilation in end-stage liver disease  
G. Kaltsakas, E. Antoniou, A. Palamidis, P. Paraskeva, S. A. Genimmata, G. Dionellis, J. Milic-Emili, M. Alchanatis, N. G. Koulouris (Athens, Greece; Montreal, Canada)
- P2111 Reproducibility of diaphragm thickness measurements by ultrasonography  
M. Laviola, C. Salito, A. Aliverti (Milan, Italy)
- P2112 Effects of cardiomegaly on regional chest wall volume in patients with chronic Chagas cardiomyopathy  
J. D. Silva, D. Brandao, J. Nascimento, Jr., L. Carvalho, W. Oliveira Junior, R. Britto, G. Fregonezi, A. Aliverti, A. Dornelas de Andrade (Recife, Belo Horizonte, Natal, Brazil; Milan, Italy)
- P2113 Effect of thoracocentesis on respiratory muscle strength in patients with unilateral pleural effusion  
S. Michaelides, O. Vartzioti, G. Bablekos, G. Goulas, A. Lazaratou, G. Ionas, E. Kourtelesi (Maroussi-Athens, Greece)
- P2114 Spinal behavior during tidal and deep breathing in healthy male subjects  
M. Masuda, H. Kurosawa, J. Ohishi, D. Kobayashi, M. Kohzuki (Sendai, Japan)
- P2115 Positive effects of inspiratory muscle training (IMT) on ventilatory response to progressive hypercapnia in healthy subjects  
D. Dörfler, M. Petrovic, W. Pohl, T. Wanke (Vienna, Austria)
- P2116 Maximum cough pressures are increased in patients with chronic cough  
K. K. Lee, K. Ward, G. F. Rafferty, J. Moxham, S. S. Birring (London, United Kingdom)
- P2117 Obesity and respiratory muscle power  
A. Bashir, R. Ibrahim, A. Magzoub, O. Musa (Khartoum, Kosti, Sudan)
- P2118 Changes of active expiration respiratory muscle (RM) in men with chronic obstructive pulmonary disease (COPD)  
S. Lemiasheuskaya, M. Nedzvedz, A. Makarevich, A. Lemiasheuski, A. Pochtavcev (Minsk, Republic of Belarus)
- P2119 Acute inspiratory load effects on chest wall volumes distribution and inspiratory muscles activation  
A. da Gama, L. Carvalho, L. Feitosa, J. Nascimento, Jr., R. Sa, A. G. Cavalcanti, G. Fregonezi, A. Aliverti, M. A. Rodrigues, A. Dornelas de Andrade (Recife, Natal, Brazil; Milano, Italy)
- P2120 Does lung transplantation improve chronotropic incompetence?  
M. Bartels, H. Armstrong, S. Arcasoy (New York, United States of America)
- P2121 Does chronotropic incompetence occur in interstitial lung disease?  
M. Bartels, H. Armstrong, A. Layton, D. Lederer (New York, United States of America)
- P2122 Effect of posture on chest wall and diaphragm asynchronies in COPD  
R. Priori, M. Quaranta, A. L. P. Albuquerque, P. M. A. Calverley, A. Aliverti (Milano, Italy; Liverpool, United Kingdom; Sao Paulo, Brazil)
- P2123 Parasternal muscle contractility increases with aminophylline  
J. Jagers, B. Rothwell, P. Easton (Calgary, Canada)

HALL 2-6

SESSION 253

12:50 - 14:40

**Thematic Poster Session: Lung and airway function**

**Chairs: N. Koulouris (Athens, Greece), G. Miserocchi (Monza, Italy), R. Dellaca (Milan, Italy), Z. Hantos (Szeged, Hungary)**

- P2124 Relationships between bronchial obstruction and differential NO parameters after methacholine challenge testing  
L. Barbinova, P. Alexandra, X. Baur (Hamburg, Germany)
- P2125 Minor local alveolar edema in an *in vivo* human model can be detected by changes in respiratory mechanics by impulse oscillometry (IOS)  
M. Bartesaghi, E. Beretta, A. Pesci, A. Aliverti, G. Miserocchi (Monza, Milano, Italy)
- P2126 Acute changes in physiological parameters and pulmonary function during and after fiberoptic bronchoscopy  
A. Mohan, R. Guleria, A. Ali, A. Kumar (New Delhi, India)
- P2127 Distribution and determinants of restrictive functional pattern  
J. B. Soriano, M. Miravittles, F. Garcia-Rio, L. Muñoz, G. Sanchez, V. Sobradillo, E. Duran, D. Guerrero, J. Ancochea (Bunyola, Barcelona, Madrid, Cordoba, Bilbao, Spain)
- P2128 Effects of gastric bypass surgery compared to intensive lifestyle treatment on blood gases and lung function in morbidly obese subjects  
A. M. Gabrielsen, M. B. Lund, J. Kongerud, V. Karl Erik, J. Hjelmæsæth (Tønsberg, Oslo, Norway)
- P2129 Reproducibility and repeatability of tidal breathing parameters derived from structured light plethysmography when compared to spirometry  
C. Weerasuriya, K. Prosser, S. Alimohamed, R. Iles, J. Cameron, J. Lasenby, C. Fogarty (Cambridge, United Kingdom; Cambridge, United States of America)

MONDAY  
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## MONDAY SEPTEMBER 26

- P2130 Abnormal vocal cord movement in asthma: Impact on the flow volume curve  
L. Ruane, K. Low, P. Guy, K. Lau, P. Bardin (Melbourne, Australia)
- P2131 Compression artifact free flow-volume loops used to establish objective measurements in patient effort with spirometry  
K. Neu, G. Koussa, L. Hart, N. Stachowicz, D. Compa (Albany, United States of America)
- P2132 Airway resistance during the methacholine challenge test: Comparison between impulse oscillometry and plethysmographic technique  
E. Beretta, F. Tana, A. Aliverti, L. Novelli, G. S. Grasso, G. Miserocchi (Monza, Milan, Italy)
- P2133 Impulse oscillometry (IOS) vs plethysmographic methods to detect PD20 in the methacholine challenge test  
E. Beretta, M. Bartesagni, A. Aliverti, S. Perossi, G. S. Grasso, F. Tana, G. Miserocchi (Monza, Milan, Italy)
- P2134 Variability of respiratory rhythm and pattern of breathing changes in patients with bronchial asthma and cold airway hyperresponsiveness  
D. L. Nakhamchen, J. M. Perelman (Blagoveschensk, Russian Federation)
- P2135 Improved survival with increased IC/TLC ratio, DLCO and FEV1 in an analysis of a COPD pulmonary function database  
D. Balfe, Z. Mosenifar (Los Angeles, United States of America)
- P2136 Role of facemask spirometry in motor neurone disease (MND)  
S. Banerjee, I. Smith, M. Davies, R. Chadwick (Papworth Everard, United Kingdom)
- P2137 Impact of bronchodilator on pulmonary function and exercise tolerance in LAM  
B. Baldi, S. Pimenta, A. Albuquerque, R. Kairalla, M. Suesada, V. Pavezi, F. Polisel, C. Carvalho (São Paulo, Brazil)
- P2138 A case of double aortic arch suggested by the analysis of the flow-volume curve  
C. Calabrese, V. Di Spirito, C. Guarino, G. Rossi, N. Corcione, L. De Pietro, S. A. Marsico (Naples, Italy)
- P2139 Pulmonary and liver injury after exposure to sublethal doses of microcystin-LR  
W. Zin, G. Carvalho, V. Oliveira, N. Casquilho, R. Soares, S. Azevedo, K. Pires, S. Valença (Rio de Janeiro, Brazil)
- P2140 Respiratory function in rats submitted to pharmacological hypothyroidism  
W. Zin, V. Pereira, V. Cagido, G. Sena, V. Baldez, M. Einicker-Lamas, V. Correa-da-Costa (Rio de Janeiro, Brazil)
- P2141 Exercise tolerance is related to lung density in patients with COPD  
J. Chlumsky (Prague, Czech Republic)
- P2142 Exhaled nitric oxide and lung function in winter sports elite athletes  
S. Gasymova, A. Ulianov, L. Nikitina, F. Petrovskiy (Khanty-Mansiysk, Russian Federation)
- P2143 Exercise-related perceptions do not affect exercise response in subjects with OSA  
G. Innocenti Bruni, F. Gigliotti, C. Coli, B. Binazzi, I. Presi, I. Romagnoli, B. Lanini, L. Stendardi, G. Scano (Florence, Italy)

HALL 2-7

SESSION 254

12:50 - 14:40

## Thematic Poster Session: Clinical physiology for clinical problems

**Chairs:** P. Laveneziana (Paris, France), L. Puente Maestú (Madrid, Spain), M. Bonsignore (Palermo, Italy), N. Hopkinson (London, United Kingdom)

- P2144 Hyperinflation and health status contribute to 6-minute walk distance in COPD, contrary to airway inflammation  
J. E. Hartman, H. M. Boezen, D. S. Postma, P. J. Sterk, P. S. Hiemstra, T. S. Lapperre, M. H. G. de Greef, N. H. T. ten Hacken (Groningen, Amsterdam, Leiden, The Netherlands)
- P2145 Variability in walking patterns during the 6MWT in COPD patients and healthy controls  
J. Annegarn, M. A. Spruit, H. H. C. M. Savelberg, C. van de Bool, A. M. W. J. Schols, E. F. M. Wouters, K. Meijer (Horn, Maastricht, The Netherlands)
- P2146 Exercise testing in the pre-flight evaluation of patients with cystic fibrosis  
E. Edvardsen, A. Akerø, J. Homme, O. H. Skjønberg, B. Skrede (Oslo, Norway)
- P2147 Changes in operating lung volume and symptoms during daily activity in COPD  
D. Savi, S. Jack, P. Albert, P. Calverley (Rome, Italy; Liverpool, United Kingdom)
- P2148 The transfer coefficient predicts the endurance increment when oxygen is given in COPD and lung fibrosis  
D. Dellweg, P. Haidl, B. Pape, D. Koehler (Schmallenberg, Germany)
- P2149 Impact of hemodialysis on dyspnoea in chronic renal failure patients  
A. Palamidis, S. A. Gennimata, F. Karakontaki, G. Kaltsakas, A. Koutsoukou, J. Milic - Emili, M. Alxanatis, N. Koulouris (Athens, Greece; Montreal, Canada)
- P2150 Effects of oxygen on exertional dyspnea and exercise performance in patients with COPD  
K. Miki, R. Maekura, T. Hiraga, H. Hashimoto, S. Kitada, M. Miki, K. Yoshimura, Y. Tateish (Toyonaka, Japan)
- P2151 The importance of completing the hypoxic challenge test in assessing the risk of altitude in air travel: Experience of flight fitness evaluation  
J. Pimentel, N. Marçal, S. Moreira, J. Valença, R. Staats, M. Aguiar, A. Bugalho de Almeida (Lisbon, Portugal)
- P2152 Physiological responses to the six-minute walk test in older adults  
V. Dourado, R. Guerra, L. Antunes, S. Tanni, I. Godoy (Santos, Botucatu, Brazil)
- P2153 Functional and neurophysiological aspects in patients with chronic obstructive pulmonary disease  
C. Rocco, L. Malosá, R. Stirbulov, J. C. Corrêa (São Paulo, Brazil)



- P2154 Functional and psychological correlates to exercise dyspnea in patients with abnormal ventilatory impedance due to COPD or interstitial lung disease or obesity  
O. Sanchez, A. Caumont-Prim, B. Chevalier-Bidaud, B. Mahut, C. Delclaux (Paris, France)
- P2155 VO<sub>2</sub> kinetics in asthmatic adolescents: A pilot study  
M. C. Canciani, A. Bon, I. Cadel, R. Moretti, M. Robazza, S. Poser (Udine, Italy)
- P2156 Echocardiographic findings in severe chronic obstructive pulmonary disease (COPD) patients who desaturate during 6-minute walking test (6MWT)  
J. A. Mazzei, A. Raimondi, C. G. Di Bartolo, A. Barro, J. Lerman, O. Grosso (C.A. Buenos Aires, Argentina)
- P2157 Activity monitor outcomes in COPD – Assessment of variability of 6 monitors as part of the IMI PROactive project  
Z. Louvaris, D. Langer, S. Giavedoni, Y. Raste, H. Van Remoortel, E. M. Gatti Regueiro, F. Wilson, I. Vogiatzis, N. Hopkinson, R. Rabinovich, B. Peterson, T. Troosters (Athens, Greece; Leuven, Belgium; Sao Paulo, Brazil; London, Edinburgh, Sandwich, Kent, United Kingdom)
- P2158 Subjective impairments in COPD are associated with dynamic hyperinflation during daily life activities  
A. Lahaije, H. van Helvoort, R. Dekhuijzen, J. Vercoulen, Y. Heijdra (Nijmegen, Groesbeek, The Netherlands)
- P2159 Daily physical activity is associated with muscle function, health status and fatigue in COPD  
W. A. Altenburg, M. H. G. de Greef, L. Bossenbroek, B. M. J. Flokstra-de Blok, N. H. T. ten Hacken, J. B. Wempe (Groningen, The Netherlands)
- P2160 Cardiopulmonary stress test: Determinations of oxygen consumption, power and cardiac variables at ventilatory threshold. Correlation with values at maximal exercise in COPD  
I. Caviedes, R. Soto, P. Gómez (Santiago, Chile)
- P2161 Heterogeneous causes and degree of exercise limitation in COPD GOLD1 and 2: Predictive value of CCQ and MRC  
F. Krouwels, W. Thijs (Hoofddorp, The Netherlands)
- P2162 The impact of anemia of chronic disease on exercise capacity among patients with chronic obstructive pulmonary disease  
A. Boutou, G. Pitsiou, I. Stanopoulos, T. Kontakiotis, K. George, N. Chavouzis, C. Nakou, L. Sichletidis, P. Argyropoulou (Thessaloniki, Greece)
- P2163 Effects of an intra-dialytic aerobic training program on oxygen uptake kinetics in patients with end-stage renal disease  
M. Reboledo, J. A. Neder, B. Pinheiro, D. Henrique, R. Faria, R. Paula (Juiz de Fora, São João del Rei, São Paulo, Brazil)

## HALL 2-8

## SESSION 255

12:50 - 14:40

## Thematic Poster Session: Innovative methods in exercise testing

**Chairs:** I. Vogiatzis (Athens, Greece), R. Rabinovich (Edinburgh, United Kingdom), J. Neder (São Paulo, Brazil), P. Onorati (Roma, Italy)

- P2164 Influence of gas concentration and measurement interval on the reproducibility of non-invasive cardiac output determination by inert gas rebreathing in pulmonary healthy patients  
F. Trinkmann, M. Sampels, U. Hoffmann, M. Borggrefe, J. J. Kaden, J. Saur (Mannheim, Germany)
- P2165 Pulse oximetry during saline challenge in vocal cord dysfunction and airway hyper-responsiveness  
A. Upward, J. Pretto, M. Hensley (Newcastle, Australia)
- P2166 A randomised cross-over clinical testing of portable oxygen concentrators in patients with COPD  
A. Couillard, D. Veale, D. Foret, B. Melloni, P. Sauder, J. F. Muir (Paris, France)
- P2167 The compensatory mechanisms of loaded and unloaded breathing in exercising men  
M. Segizbaeva (Saint-Petersburg, Russian Federation)
- P2168 Oxygen kinetics during 6-minute walk tests using mobile telemetric cardiopulmonary monitoring  
L. Kern, S. Condrau, F. Baty, W. Jan, A. Azzola, M. Tamm, M. Brutsche (St. Gallen, Interlaken, Bern, Lugano, Basel, Switzerland)
- P2169 Cardiac bioimpedance as a non-invasive tool in patients with pulmonary hypertension  
C. Lensch, R. Kaiser, C. Frantz, R. Bals, H. Wilkens (Homburg/Saar, Germany)
- P2170 Relationship between pulse transit time and blood pressure during cardiopulmonary exercise tests  
T. Wibmer, C. Kropf, K. Stoiber, S. Ruediger, M. Lanzinger, W. Rottbauer, C. Schumann (Ulm, Germany)
- P2171 Estimation of the ventilatory compensation point by the minute ventilation and heart rate relationship during exercise at high altitude  
G. Valli, P. Onorati, D. Martolini, A. Ferrazza, G. Morici, C. Passino, L. Bernardi, D. Bonardi, A. Cogo, P. Palange (Rome, Ferrara, Palermo, Pisa, Pavia, Milan, Italy)
- P2172 Lung diffusion at high altitude after endurance exercise in high- and lowlanders  
M. Overbeek, J. B. Martinot, C. De Bisschop, C. Scoditti, S. Beloka, H. Groepenhoff, M. Van der Plas, F. Villafuerte, J. L. Macarlupu, R. Naeije, H. Guenard (Amsterdam, The Netherlands; Namur, Brussels, Belgium; Poitiers, Bordeaux, France; Bari, Italy; Lima, Peru)
- P2173 Early oxygen desaturation is related to AMS development during acute exposure to high altitude (HA)  
L. Pomidori, G. Mandolesi, G. Avancini, E. Bernardi, A. Cogo (Ferrara, Italy)
- P2174 Eucapnic voluntary hyperventilation tests in elite athletes at Centre Hospitalier Universitaire de Montreal  
M. Fortin, C. Poirier (Montreal, Canada)

## MONDAY SEPTEMBER 26

- P2175 Non-invasive estimation of cardiac output by impedance cardiography during incremental exercise in patients with pulmonary arterial hypertension  
E. Ferreira, R. P. Ramos, P. Figueiredo, J. S. O. Arakaki, L. E. Nery, J. A. Neder (São Paulo, Brazil)
- P2176 The effects of pressure-threshold inspiratory load on lactate clearance after maximal exercise  
M. Johnson, D. Brown, K. Bayfield, J. Gonzalez, D. Mills, G. Sharpe (Nottingham, Leicester, London, Newcastle, United Kingdom)
- P2177 Heart rate recovery kinetics after exercise in the assessment of autonomic nervous system dysfunction in COPD patients  
A. Barberan, A. Raimondi, D. A. Rodriguez, G. Elena, A. Ane, V. Jordi, R. Josep (Barcelona, Spain; Buenos Aires, Argentina)
- P2178 Validation of a compact accelerometer for the measurement of physical activity in patients with COPD  
Y. Minakata, A. Sugino, M. Nishigai, M. Kanda, K. Akamatsu, A. Koarai, T. Hirano, H. Sugiura, K. Matsunaga, M. Ichinose (Wakayama, Japan)
- P2179 Use of accelerometers for measuring consecutive bouts in physical activity recommendations  
M. J. Zuidema, J. E. Hartman, N. H. T. ten Hacken, M. H. G. de Greef, R. C. van Lummel (The Hague, Groningen, The Netherlands)
- P2180 Physiological responses to the incremental shuttle walk test in healthy adults  
V. Dourado, R. Guerra, S. Tanni, L. Antunes, I. Godoy (Santos, Botucatu, Brazil)
- P2181 Cardiopulmonary exercise testing and hormonal status in winter sports elite athletes  
A. Ulyanov, S. Gasymova, L. Nikitina, F. Petrovskiy (Khanty-Mansiysk, Russian Federation)
- P2182 Comparison of two different O<sub>2</sub>-delivery systems during exercise in patients with chronic hypoxia  
J. Juhász, J. Juhász (Mainburg, Kiel, Germany)
- P2183 The use of submaximal metabolic stress test derived end tidal CO<sub>2</sub> may reflect pulmonary hypertension and need for further workup  
M. L. Zaremba, K. Elliott, A. Redford, S. Ali, N. Shah, S. Reddy (Port Huron, United States of America)

HALL 2-9

SESSION 256

12:50 - 14:40

**Thematic Poster Session: Epidemiology, diagnosis and treatment in obstructive sleep apnoea**
**Chairs: S. Verhulst (Wilrijk, Belgium), B. Sanner (Wuppertal, Germany), D. Pevernagie (Heeze, The Netherlands), V. Castronovo (Milan, Italy)**

- P2184 The SHIP-Trend study – Epidemiology of sleep apnoea in Germany  
I. Fietze, A. Blau, I. von Mengden, S. Zimmermann, B. Diecker, C. Biro, I. Rieger, K. Lau, A. Obst, H. Voelzke, R. Ewert, M. Glos, T. Penzel (Berlin, Greifswald, Germany)
- P2185 Gender differences in sleep apnea severity are diminished during REM sleep  
M. Pallayova, I. Peregrim, Z. Tomori, V. Donic (Kosice, Slovakia)
- P2186 Gender differences in obstructive sleep apnea syndrome (OSAS): A clinical study (1303 patients)  
L. Ballerin, M. Simoni, L. Ritrovato, A. Potena (Ferrara, Italy)
- P2187 Gender differences in sleep pattern in a cohort of patients with obstructive sleep apnea syndrome  
S. Canisius, T. Ploch, S. Apelt, J. Heitmann, W. Cassel, K. Kesper, A. Jerrentrup (Marburg, Germany)
- P2188 Obstructive sleep apnoea/hypopnoea syndrome in middle-aged patients: Differences regarding the gender  
P. Drakatos, K. Varela, G. Efreimidis, M. Spiropoulou, L. Beroukas, K. Nikoloutsou, D. Georgopoulos (Patra, Greece)
- P2189 Domiciliary non-invasive ventilation in patients 65 years or older. A case series study  
M. A. Gómez López, M. J. Díaz de Auri Rodríguez de los Ríos, S. de la Torre Carazo, J. Muñoz Méndez, B. Arias Arco, T. Díaz Cambriles (Madrid, Spain)
- P2190 Relationship between obstructive sleep apnea syndrome severity and age  
N. Kiral, B. Salepçi, A. Fidan, E. Torun, S. Cömert, G. Saraç, A. Havan, B. Çağlayan (Istanbul, Turkey)
- P2191 Clinical characteristics in octogenarian patients with sleep apnea hypopnea syndrome  
S. de la Torre Carazo, R. Alonso Moralejo, A. Gómez López, B. Arias Arcos, M. J. Díaz de Auri, A. López Encuentra, T. Díaz Cambriles, J. Muñoz Menéndez (Madrid, Spain)
- P2192 Pediatric obstructive sleep apnea: Experience of the multidisciplinary sleep unit of Fundacion Jimenez-Diaz (Madrid-Spain)  
M. B. Gallegos, Z. Saavedra, I. Cabrejos, M. F. Troncoso, G. Del Rio, N. Gonzalez-Mangado, M. Rodríguez (Madrid, Spain)
- P2193 Evolution of treatment with CPAP over 21 months of follow-up in patients with sleep apnea hypopnea syndrome  
J. Fernández-Lahera, F. García Río, C. Carpio, D. Feliz, D. Romero, E. Martínez, C. Prados, R. Alvarez-Sala (Madrid, Spain)
- P2194 Sleep-disordered breathing (SDB) and obstructive sleep apnea (OSA) in elderly population with high and low BMI  
G. Del Giudice, A. Colangeli, P. Carducci, M. Carunchio, R. Di Crecchio, A. Fiore-Donati (L'Aquila, Italy)
- P2195 Follow-up of children with obstructive sleep apnea syndrome treated with adenotonsillectomy  
F. Ianniello, D. D'Onofrio, M. C. Paolino, R. Castaldo, A. Crescenzi, A. Tabarrini, S. Miano, M. Del Pozzo, M. P. Villa (Rome, Italy)

- P2196 Clinical reproducibility of the pediatric sleep questionnaire (PSQ)  
J. L. Fernández Sánchez, A. R. Sánchez Serrano, P. Gudiel Arriaza, S. Cadenas Menéndez, S. C. García Vicente, J. Márquez Márquez, M. Torracchi Carrasco, I. Alaejos Pascual, M. J. Bernabé Barrios (Salamanca, Spain)
- P2197 The STOP questionnaire is the best screener for obstructive sleep apnoea syndrome at the sleep clinic  
K. Sharma, I. Sulaiman, M. McDonnell, A. Vellinga, J. J. Gilmartin (Galway, Ireland)
- P2198 Questionnaire designed to identify patients with moderate/severe sleep apnoea and its correlation with polysomnography  
R. L. M. Duarte, F. J. M. da Silveira (Rio de Janeiro, Brazil)
- P2199 Continuous positive airway pressure in patients with obstructive sleep apnea: Adherence dependent on apnea-hypopnea index, leakage and mask pressure  
H. Woehrle, A. Graml, G. Weinreich (Martinsried, Essen, Germany)
- P2200 Importance of a questionnaire study on Latin American physicians about sleep apnea  
I. Cherrez-Ojeda, T. Guerrero, R. Mantilla (Guayaquil, Ecuador)
- P2201 Modified sleep apnea clinical score: Is usefull in our clinical practice?  
M. I. Andrade, J. A. Cascante, A. Iridoy, M. Hernández, P. Cebollero, V. M. Eguía, J. J. Hueto (Pamplona, Spain)
- P2202 Web-based follow-up of CPAP compliance in obstructive sleep apnea syndrome: A pilot study  
V. Isetta, C. Leon, R. Farre, J. M. Montserrat (Barcelona, Bunyola, Spain)

## HALL 2-10

## SESSION 257

12:50 - 14:40

**Thematic Poster Session: Physiology and diagnostic technology in obstructive sleep apnoea****Chairs: T. Penzel (Berlin, Germany), M. Kohler (Zurich, Switzerland), S. Asadi (Vienna, Austria)**

- P2203 Sleep disordered breathing detected by a new automated ECG analysis in subjects with insomnia  
T. Penzel, C. Garcia, M. Glos, C. Schoebel, M. Sebert, I. Fietze (Berlin, Germany)
- P2204 Respiratory polygraphy versus polysomnography for the diagnosis of obstructive sleep apnoeas in children  
L. Hammoudi, F. Heraut, F. Bour, H. Trang (Paris, Garches, Gonesse, France)
- P2205 Overnight oximetry as a screening tool for diagnosing obstructive sleep apnea in high altitude residents  
B. N. B. M. Prasad, C. A. Tukaram (Wellington Barracks, The Nilgiris District, India)
- P2206 A new tool to help patients with obstructive sleep apnea syndrome (OSAS) make informed therapeutic choices  
N. Pelletier-Fleury, A. Gafni, N. Krucien, B. Fleury (Villejuif, Paris, France; Hamilton, Canada)
- P2207 Comparing different flow rates (20 and 35 l/min) under high-nasal flow therapy for the obstructive sleep apnoea syndrome (OSAS)  
G. Nilius, U. Domanski, K. J. Franke, K. H. Ruhle, H. Schneider (Hagen, Germany; Baltimore, United States of America)
- P2208 Variability in AHI and mean pressure over time in OSA patients treated with APAP  
S. Chandramouli, D. Price, J. Furlong, S. Huq, J. Hadcroft (Liverpool, United Kingdom)
- P2209 Manual vs. automated analysis of polysomnographic recordings in patients with COPD  
G. Stege, P. J. E. Vos, P. N. R. Dekhuijzen, P. H. E. Hilkens, M. J. T. van de Ven, Y. Heijdra, F. J. J. van den Elshout (Arnhem, Nieuwegein, Nijmegen, The Netherlands)
- P2210 Heart rate analysis using multiscale entropy in OSA patients under CPAP treatment – Pilot study  
J. Radlinski, W. Tomalak, Z. Baran (Rabka - Zdrój, Poland)
- P2211 Validation of a new polygraphy device for the diagnosis of obstructive sleep apnoea (OSA)  
U. Domanski, K. H. Ruhle, M. Laurent, M. Stoica, A. Hogrebe, M. P. D'Ortho, G. Nilius (Hagen, Germany; Paris, France)
- P2212 CPAP setting prediction in OSAS patients  
N. Chavouzis, K. Fekete Passa, A. Boutou, C. Nakou, A. Paspala, I. Stanopoulos, G. Pitsiou, A. Pataka, V. Bagalas, P. Argyropoulou (Thessaloniki, Greece)
- P2213 Capsaicin-induced cough reflex is inhibited by deep inspiration in children with mild asthma  
R. Pecova, T. Michnova, J. Fabry, T. Zatkan, M. Neuschlova, Z. Tomori (Martin, Dolny Smokovec, Kosice, Slovakia)
- P2214 How we treat central apneas?  
M. Aguiar, S. Moreira, R. Staats, F. Caeiro, J. Valença, A. Bugalho de Almeida (Lisbon, Portugal)
- P2215 Evaluation of an ambulatory device for the diagnosis of sleep apnea in 2 to 5 year-old children  
A. Foresi, A. Marinou, C. Leone, G. Ricciardi (Sesto San Giovanni, Italy)
- P2216 Respiratory events related arousals, what are we doing about them?  
M. Aguiar, R. Staats, S. Moreira, F. Caeiro, J. Valença, A. Bugalho de Almeida (Lisboa, Portugal)
- P2217 Efficacy of the 'tennis ball technique' in patients with positional obstructive sleep apnoea syndrome  
G. E. de Vries, P. M. Meijer, J. H. van der Hoeven, R. A. Feijen, B. Stegenga, P. J. Wijkstra (Groningen, The Netherlands)
- P2218 Added value of a mandible movement automated analysis (MMAA) to a type 3 portable monitoring (PM) in the diagnosis of obstructive sleep apnea (OSA)  
G. Maury, R. Poirrier, L. Cambon, F. Senny (Yvoir, Liège, Belgium)

MONDAY  
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## MONDAY SEPTEMBER 26

- P2219 Ultrasound evaluation of diaphragmatic function in obstructive sleep apnea  
G. Matziaras, K. Vlami, A. Antaraki, A. Papastefanou, V. Balafas, N. Kostomitsopoulos, S. Papiris, A. Kostakis (Athens, Greece)
- P2220 Effect of upper airway stimulation for quality of life and sleep architecture in patients with moderate-to-severe OSA  
J. Verbraecken, J. T. Maurer, L. Knaack, W. De Backer (Antwerp, Belgium; Mannheim, Dortmund, Germany)
- P2221 Upper airway collapsibility evaluated by negative expiratory pressure test in severe obstructive sleep apnea  
S. Romano, A. Salvaggio, R. Hirata, A. Lo Bue, S. Picciolo, L. V. Oliveira, G. Insalaco (São Paulo, Brazil; Palermo, Messina, Italy)
- P2222 Parasternal intercostal function during sustained hypoxia  
M. Ji, T. Ikegami, P. Easton (Calgary, Canada)

HALL 2-11

SESSION 258

12:50 - 14:40

**Thematic Poster Session: Cardiometabolic and neurocognitive changes in obstructive sleep apnoea**
**Chairs: M. Arzt (Regensburg, Germany), R. Tkacova (Kosice, Slovakia), R. Silke (Dublin, Ireland)**

- P2223 Structural brain changes related to disease duration in patients with asthma  
A. von Leupoldt, S. Brassen, H. J. Baumann, H. Klose, C. Büchel (Hamburg, Germany)
- P2224 The impact of obstructive sleep apnea on glucose regulation and liver injury in nondiabetic men  
Q. Xiaosen, L. Yi (Beijing, China)
- P2225 Importance of controlled blood pressure values in a population with obstructive sleep apnea syndrome (OSA) and arterial hypertension (HT)  
O. C. Deleanu, A. E. Malaut, R. E. Nedelcu, R. Ulmeanu, I. Mierlus-Mazilu, F. D. Mihaltan (Bucharest, Romania)
- P2226 Severity of sleep-disordered breathing is an independent predictor of metabolic dysfunction in a population with obstructive sleep apnoea  
B. Kent, D. Fitzgerald, A. Russell, L. Hayes, G. Nolan, W. McNicholas (Dublin, Ireland)
- P2227 Effect of CPAP treatment on endothelial function, inflammatory markers, blood pressure and glucose control in patients with OSAS with emphasis on gender differences  
A. Panoutsopoulos, A. Kallianos, A. Pappas, L. Velentza, C. Mermigkis, K. Kostopoulos, V. Kouranos, A. Rapti, E. Koufogiorga, A. Mitrakou, C. Kostopoulos, N. Zakopoulos, I. Nikolopoulos (Athens, Greece)
- P2228 Endothelial function in obstructive sleep apnea syndrome  
E. Markozannes, F. Kapsimalis, K. Cholidou, K. Kyrkou, K. Kosta, M. Alchanatis (Athens, Greece)
- P2229 The lack of evidence based knowledge of metabolic syndrome in obesity hypoventilation syndrome  
A. G. Vos, A. F. Muller, F. Brijker (Utrecht, The Netherlands)
- P2230 C-reactive protein (CRP) levels in obstructive sleep apnea (OSA) patients and relation to severity of OSA  
J. J. Garrido, D. Fernandez-Berges, F. J. Felix, M. J. Zaro (Don Benito, Villanueva de la Serena, Spain)
- P2231 Efficacy of BiPAP AutoSV advanced in subjects with congestive heart failure and central apnea  
W. J. Randerath, D. Banerjee, M. Treml, W. Galetke, C. Priegnitz, A. Ali, S. Taheri (Solingen, Germany; Birmingham, United Kingdom)
- P2232 Metabolic and inflammatory profile in obese and non obese children with obstructive breathing disorders  
S. Weber, E. Moreira, R. Mizusaki Iyomasa, A. C. Silveira, C. Kurokawa (Botucatu, Brazil)
- P2233 Cognition, quality of life and adherence to CPAP after 18-months treatment in obstructive sleep apnea patients  
V. Castronovo, S. Marelli, M. S. Aloia, M. Zucconi, A. Oldani, M. Manconi, L. Ferini Strambi (Milan, Italy; Denver, United States of America)
- P2234 Association between arterial hypertension and impaired glucose tolerance (IGT) in obstructive sleep apnoea (OSA) patients  
R. Plywaczewski, P. Bielen, L. Jonczak, D. Gorecka, P. Sliwinski (Warsaw, Poland)
- P2235 Impact of obstructive sleep apneas/hypopneas on blood pressure during a short period of stable sleep. A relevance for blood pressure variation?  
R. Staats, D. Fernandes, J. Valença, M. Aguiar, M. Susana, I. Claro, L. F. Moita, A. Bugalho de Almeida (Lisbon, Portugal)
- P2236 Perception of problems driving and driving simulator performance in obstructive sleep apnoea syndrome (OSAS)  
D. Ghosh, S. L. Jamson, P. D. Baxter, M. W. Elliott (Leeds, United Kingdom)
- P2237 Effects of non-surgical therapeutic program on the metabolic syndrome (MetS) in morbidly obese patients  
M. Vukcevic, M. Tancic, S. Vujovic (Belgrade, Republic of Serbia)
- P2238 A study of insulin resistance in moderate to severe obstructive sleep apnea in non diabetics and its response to nasal CPAP treatment  
G. A. D. Souza, A. Babu Rao, S. Sampath, U. Subramanian Unni (Bangalore, India)
- P2239 Relationships between obstructive sleep apnea and oxidant/antioxidant status  
L. Puiu, A. Didilescu, O. Fira-Mladinescu, F. Gliga, M. Greabu, A. Totan, N. Maru, A. Petrovan, C. Didilescu (Baia-Mare, Romania)
- P2240 Road traffic collisions caused by sleepiness in UAE  
M. Al-Houqani, H. Eid, F. Abu Zaidan (Al-Ain, United Arab Emirates)

- P2241 The effect of obstructive sleep apnea on serum levels of BNP  
M. Chalhoub, K. Harris, R. Maroun (Staten Island, United States of America)
- P2242 Relationship between obstructive sleep apnoea syndrome (OSAS) and the levels of endothelial progenitor cells (EPC) in patients with acute stroke  
A. Mola, A. M. Fortuna, R. M. Miralda, R. Delgado, J. Martí, J. Crespo, M. Mayos (Barcelona, Spain)

## HALL 2-12

## SESSION 259

12:50 - 14:40

**Thematic Poster Session: Comorbid obstructive sleep apnoea (OSA) and OSA comorbidities**

**Chairs: I. Smith (Cambridge, United Kingdom), R. L. Riha (Edinburgh, United Kingdom), S. Andreas (Immenhausen, Germany)**

- P2243 Does respiratory irregularity contribute to the pathogenesis of sleep-disordered breathing in multiple system atrophy?  
S. Hokari, H. Nakayama, T. Matsuto, T. Shimohata, T. Takada, T. Ozawa, M. Nishizawa, E. Suzuki, I. Narita (Niigata, Japan)
- P2244 The relationship between obstructive sleep apnea syndrome and apolipoprotein E alleles  
E. Kucuk, O. Balbay, A. N. Annakkaya, E. Gulec Balbay, F. Silan, P. Arbak (Duzce, Canakkale, Turkey)
- P2245 A case of obstructive sleep apne syndrome with bilateral vocal cord paralysis  
O. Öztürk, U. Khayri, Y. Kurt, M. Has, I. M. Çiris, M. Tüz, A. Akkaya, M. Çetin (Isparta, Turkey)
- P2246 Comorbidities of obstructive sleep apnoea syndrome  
M. Tamhankar, M. Mohan, R. Ramanjaneya, T. Sen (Bangalore, India)
- P2247 Sleep apnoea in patients with renal transplantation  
A. Fritz, O. Vonend, L. C. Rump (Düsseldorf, Germany)
- P2248 Sleep related disorder of breathing in syndromic and nonsyndromic craniosynostosis  
S. Iqbal, M. AlSaadi, E. Elgamel (Riyadh, Saudi Arabia)
- P2249 Should cardiologists routinely screen and evaluate myocardial infarction patients for sleep disorders?  
F. M. Szymanski, K. Filipiak, A. Hryniewicz-Szymanska, G. Karpinski, G. Opolski (Warsaw, Poland)
- P2250 Daytime sleepiness in patients on intrathecal chronic opioid (IT) therapy is not related to sleep disordered breathing (SDB)  
F. Fanfulla, L. Demartini, P. Fulgoni, M. Buonocore, M. Barbieri, C. Bonezzi (Pavia, Italy)
- P2251 Sleep apnea-hypopnea syndrome and glaucoma: Is there any association?  
N. Grau, M. Castany, M. Felez, C. Sanjuas, J. Gea (Barcelona, Spain)
- P2252 Anxiety, depression and alexithymia in patients with obstructive sleep apnea syndrome  
S. Dumitru, D. Bratis, S. Gyftopoulos, A. Tselebis, I. Xazapis, K. Chronopoulou, E. Kosmas (Athens, Greece)
- P2253 Obstructive sleep apnea syndrome in patient with primary open angle glaucoma  
E. Gulec Balbay, O. Balbay, M. Tunc, H. Yuksel, A. N. Annakkaya, P. Arbak, T. Dumlu (Duzce, Turkey)
- P2254 Sleep disorders in morbid obesity who undergo bariatric surgery  
B. Morales, P. Benedetti, J. M. Fernandez-Sanchez-Alarcos, G. Rodriguez-Trigo, J. L. Álvarez-Sala, M. A. Nieto (Madrid, Spain)
- P2255 Positional sleep apnoea syndrome: An underestimated pathology that needs to be explored  
J. C. Meurice, E. Antone, J. P. Neau, A. Verbert, J. Paquereau (Poitiers, France)
- P2256 Incidence, characterization and clinical implications of sleep disorders in patients with atrial flutter  
N. Grau, V. Bazan, M. Felez, C. Sanjuas, J. Marti-Almor, J. Gea (Barcelona, Spain)
- P2257 Results of respiratory parameters in morbidly obese patientes with obstructive sleep apnoea after bariatric surgery  
A. Urrutia Gajate, S. Pedrero Tejada, J. Amilibia Alonso, F. Vazquez San Miguel, G. Errazti De Olartecoechea, M. Inchausti Iguñiz, M. Alfonso Imizcoz, R. Diez Arnesto (Barakaldo, Spain)
- P2258 Objective assessment of sleep pattern and daytime sleepiness during Ramadan fasting in Muslims and non-Muslims  
A. BaHammam, A. Alaseem, A. Alzakri, M. Sharif (Riyadh, Saudi Arabia)
- P2259 Decreased ventilatory response to carbon dioxide by steady state in patients with myotonic dystrophy type 1 compared to healthy subjects  
M. Poussel, P. Kaminsky, J. Laroppe, S. Varechova, B. Chenuel (Nancy, France)
- P2260 The relationship between testosterone, obesity and depressive mood in obstructive sleep apnea (OSA) postmenopausal women  
R. M. Bercea, E. Cojocaru, T. Mihaescu (Iasi, Romania)
- P2261 Mean platelet volume in patients with obstructive sleep apnea syndrome and its relationship with cardiovascular diseases  
E. Kaya, A. Kanbay, N. Tutar, H. Buyukoglan, F. S. Oymak, I. Gulmez, R. Demir (Kayseri, Turkey)
- P2262 Congenital central hypoventilation syndrome (CCHS): A case of late onset presentation  
T. Lamon, S. Pontier, L. Tetu, D. Riviere, A. Didier (Toulouse, France)

## MONDAY SEPTEMBER 26

HALL 2-13

SESSION 260

12:50 - 14:40

## Thematic Poster Session: Obstructive sleep apnoea: clinical aspects I

**Chairs:** S. West (Newcastle, United Kingdom), P. Jennum (Glostrup, Denmark), A. Kaditis (Piraeus, Greece), W. De Backer (Antwerp, Belgium)

- P2263 Investigating for dyslipidemia in those being referred for suspected obstructive sleep apnoea  
S. Walsh, F. Khan, D. Divilly, J. J. Gilmartin (Galway, Ireland)
- P2264 Correlation between excessive daytime sleepiness and the risk for obstructive sleep apnea with academic performance among medical students at UP-PGH  
M. J. Sandagon, M. P. Pablo, M. Jorge (Manila, Philippines)
- P2265 Mortality in young and old subjects with obstructive sleep apnoea with and without comorbidities  
A. Lo Bue, G. Insalaco, A. Salvaggio, G. Dardanoni, O. Marrone (Palermo, Italy)
- P2266 Relationship between the reduced ventilatory response to CO<sub>2</sub> and the impairment of the lung function in myotonic dystrophy patients  
M. Poussel, P. Kaminsky, J. Laroppe, S. Varechova, B. Chenuel (Nancy, France)
- P2267 Evaluation of association between OSA and metabolic syndrome, insulin resistance and Hs-CRP  
A. Halvani, M. Salami, M. Karimi (Yazd, Islamic Republic of Iran)
- P2268 Oxygen desaturation is associated with diabetes mellitus in patients with obstructive sleep apnoea  
M. Al-Abri, H. Al-Lawati, Y. Al-Alawi, A. Al-Manairi (Muscat, Oman)
- P2269 Systemic inflammation and vascular dysfunction in patients with OSA  
F. Villar-Álvarez, M. F. Troncoso-Acevedo, G. Peces-Barba, M. S. Lucero, I. Cabrejos-Salinas, Z. Saavedra-Moreno, N. González-Mangado (Madrid, Spain)
- P2270 The changes of serum adipocytokines levels in patients with OSAHS  
Y. Lin, T. Xu (Nanjing, China)
- P2271 Deregulation of carbohydrate metabolism in patients with sleep apnoea  
J. Fernández-Lahera, F. García Río, I. Fernández, S. Zudaire, R. Casitas, C. Llontop, R. Galera, C. Villasante, R. Álvarez-Sala (Madrid, Spain)
- P2272 The relationship between obstructive sleep apnea hypopnea syndrome and insulin resistance, vascular complications in patients with type 2 diabetes mellitus  
G. Ma, X. Guo (Beijing, China)
- P2273 Vitamin D deficiency and excessive daytime sleepiness in obstructive sleep apnea: Is there a correlation?  
M. Blaukovitsch, S. Rüller, E. Müller, P. Zabel, H. P. Hauber (Borstel, Germany)
- P2274 Effect of unilateral lingual paralysis on swallowing and breathing coordination  
Y. Ouahchi, J. P. Marie, E. Verin (Rouen, France)
- P2275 Oxidative stress in obese children with sleep-disordered breathing  
K. Van Hoorenbeeck, H. Franckx, L. Van Gaal, K. Desager, W. De Backer, S. Verhulst (Antwerp, De Haan, Belgium)
- P2276 Cognitive learning function in OSA children  
S. Weber, S. Hilario, E. Moreira da Silva, V. Barbosa dos Santos, C. Mendes-Chiloff (Botucatu, Brazil)
- P2277 Variance over time of the obstructive sleep apnoea syndrome (OSAS) in patients with acute stroke  
A. Mola, A. M. Fortuna, R. M. Miralda, R. Delgado, J. Martí, M. Mayos (Barcelona, Spain)
- P2278 Obstructive sleep apnea contributes acutely to left ventricular dysfunction independently of hypoxaemia  
K. Vlami, G. Matziaras, A. Papastefanou, A. Antaraki, N. Kostomitsopoulos, V. Balafas, A. Kostakis, S. Papiris (Athens, Greece)
- P2279 Respiratory symptoms and risk for obstructive sleep apnea in professional musicians  
M. Antoniadou, V. Michailidis, E. Perantoni, D. Chloros, A. Prinza, T. Gegas, V. Tsara (Thessaloniki, Greece)

HALL 2-14

SESSION 261

12:50 - 14:40

## Thematic Poster Session: Treatment of human pulmonary hypertension

**Chairs:** K. Sheares (Cambridge, United Kingdom), C.A Elliot (Sheffield, United Kingdom)

- P2280 Experience with inhaled iloprost in paediatric pulmonary arterial hypertension  
A. Torrent Vernetta, A. Moreno Galdó, I. Mir Messa, S. Rovira Amigó, J. Girona Comas, S. Gartner, M. T. Benabides Medina, C. Martin de Vicente (Barcelona, Spain)
- P2281 Sildenafil (SIL) reduces serum creatinine (SCR) in patients with pulmonary arterial hypertension (PAH): Relationship to clinical outcomes  
D. Webb, J. L. Vachieri, L. J. Hwang, S. Watt, J. Maurey (Edinburgh, United Kingdom; Brussels, Belgium; New York, United States of America)
- P2282 Epoprostenol with expanded stability has the same pharmacokinetic and hemodynamic profiles as epoprostenol in healthy subjects  
L. Nicolas, M. Gutierrez, L. Galitz, J. Dingemane (Allschwil, Switzerland; Miami, United States of America)
- P2283 Switch from sitaxentan to another ERA in PAH: Single center short term safety observations  
T. Lange, M. Arzt, M. Pfeifer (Regensburg, Donaustauf, Germany)

- P2284 Double combination therapy in patients with pulmonary arterial hypertension associated with congenital heart defects  
N. Rizzo, E. Conficoni, M. Palazzini, E. Leci, E. Gotti, G. Mazzanti, F. Terzi, A. Manes, E. Beciani, F. Sciarra, C. Bachetti, F. Sgro', N. Galiè (Bologna, Italy)
- P2285 ACE2 activation improves pulmonary endothelial function and attenuates monocrotaline-induced pulmonary hypertension  
V. Shenoy, A. Gjymishka, K. Rigatto, Y. Qi, C. Bradford, D. Ely, M. Katovich, M. Raizada (Gainesville, United States of America)
- P2286 Effect of treatment on exercise endurance tolerance and ventilatory efficiency in patients with pulmonary arterial hypertension (PAH)  
D. Martolini, P. Onorati, G. Valli, A. M. Ferrazza, P. Marinelli, M. Internullo, L. Sardo, C. Gambardella, B. Pezzuto, C. D. Vizza, P. Palange (Rome, Italy)
- P2287 Improved survival in medically-treated chronic thromboembolic pulmonary hypertension  
R. Nishimura, N. Tanabe, Y. Ichimura, A. Sekine, T. Sugiura, T. Jujo, A. Shigeta, S. Sakao, Y. Kasahara, Y. Takiguchi, K. Tatsumi (Chiba, Japan)
- P2288 Biphasic cuirass ventilation decreased the indices of pulmonary circulation in patients with secondary pulmonary hypertension  
Y. Sato, T. Asakura, N. Saeki, K. Aoshiba, T. Kotani (Tokyo, Kawasaki, Japan)
- P2289 Cure pulmonary arterial hypertension associated with HIV (PAH-HIV)? ... Toward an answer  
C. Tcherakian, E. Rivaud, A. C. Metivier, E. Catherinot, D. Zucman, L. J. Couderc (Suresnes, France)
- P2290 Effects of BAY 41-8543 and sildenafil on right heart structure and function in pulmonary artery banded mice  
W. Janssen, Y. Schymura, A. Wietelmann, J. P. Stasch, H. Luitel, N. Weissmann, H. A. Ghofrani, F. Grimminger, T. Braun, W. Seeger, R. T. Schermuly (Bad Nauheim, Giessen, Wuppertal, Germany)
- P2291 Comparison of different vasodilators in a model of secondary pulmonary hypertension (PH): Desaturation effects  
E. M. Becker, J. P. Stasch, M. Bechem, R. Kast, H. Truebel (Wuppertal, Germany)
- P2292 Optimization of tissue targeting properties of macitentan, a new dual endothelin receptor antagonist, improves its efficacy in a rat model of pulmonary fibrosis associated with pulmonary arterial hypertension  
M. Iglarz, K. Landskroner, D. Wanner, M. Rey, P. Hess, M. Clozel (Allschwil, Switzerland)
- P2293 First and second line treatment pattern among pulmonary hypertension patients enrolled in a managed care health plan  
V. Joish, D. Muccino, C. Krelick (Wayne, United States of America)
- P2294 Pulmonary hypertension in patients treated with Src/Abl kinase inhibitor dasatinib  
D. Montani, E. Bergot, S. Günther, L. Savale, A. Bergeron, A. Bourdin, H. Bouvaist, M. Canuet, C. Pison, M. Macro, P. Poubeau, D. Natali, F. Perros, D. S. O'Callaghan, X. Jais, G. Zalcman, O. Sitbon, G. Simonneau, M. Humbert (Clamart, Caen, Paris, Montpellier, Grenoble, Strasbourg, Saint-Pierre, Réunion, France)
- P2295 Everolimus improves exercise capacity and pulmonary vascular resistance in patients with advanced pulmonary hypertension – A pilot study  
H. J. Seyfarth, S. Hammerschmidt, M. Halank, P. Neuhaus, H. Wirtz (Leipzig, Dresden, Germany)
- P2296 Pediatric pulmonary arterial hypertension: Sildenafil (SIL) monotherapy for one year in treatment-naïve children  
R. Barst, I. Konourina, S. Watt, H. Richardson, G. Layton, D. D. Ivy (New York, Sandwich, Aurora, United States of America)
- P2297 Ambrisentan improves exercise capacity and symptoms in patients with portopulmonary hypertension  
M. Halank, L. Knudsen, H. J. Seyfarth, R. Ewert, B. Wiedemann, M. Kolditz, G. Hoeffken, M. Hoepfer (Dresden, Hannover, Leipzig, Greifswald, Germany)
- P2298 Double combination therapy in patients with pulmonary arterial hypertension associated with connective tissue disease  
E. Gotti, E. Leci, A. Manes, M. Palazzini, E. Beciani, E. Conficoni, N. Rizzo, F. Terzi, G. Mazzanti, F. Sciarra, N. Galiè (Bologna, Italy)
- P2299 Tadalafil in idiopathic or heritable pulmonary arterial hypertension compared to pulmonary arterial hypertension associated with connective tissue disease  
N. Galie, R. Barst, B. Brundage, H. A. Ghofrani, R. Oudiz, G. Simonneau (Bologna, Italy; New York, Bend, Torrance, United States of America; Giessen, Germany; Clamart, France)

HALL 2-15

SESSION 262

12:50 - 14:40

**Thematic Poster Session: Physiology of human pulmonary hypertension**

**Chairs:** R. Naeije (Brussels, Belgium), A. Peacock (Glasgow, United Kingdom), A. Vonk Noordegraaf (Amsterdam, The Netherlands), O. Sitbon (Clamart, France)

- P2300 Role of exercise cardiac index to predict NYHA functional class, 6-minute walk test distance and survival in idiopathic, heritable and anorexigen-associated pulmonary arterial hypertension  
R. Poncot-Mongars, A. Chaouat, P. Malvestio, E. Gomez, D. Regent, C. Selton, A. Guillaumot, F. Chabot (Vandoeuvres-lès-Nancy, France)

MONDAY  
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## MONDAY SEPTEMBER 26

- P2301 Estimation of right ventricular function in highlanders with high altitude pulmonary hypertension and high altitude cor pulmonale  
A. Maripov, A. Sarybaev (Bishkek, Kyrgyzstan)
- P2302 Analysis of the cardiac index-PvO<sub>2</sub> relationship during vasodilatation challenge as a prognostic factor in pulmonary arterial hypertension  
C. Rosado-Bosque, T. Pulido, K. Zamora, A. Rodriguez, M. Contreras, P. Guevara, J. Sandoval (Mexico City, Mexico)
- P2303 Diaphragm function in experimental pulmonary hypertension  
E. Manders, N. Westerhof, A. Vonk-Noordegraaf, F. de Man, C. Ottenheijm (Amsterdam, The Netherlands)
- P2304 A model-based analysis of the effect of hypoxia on regional pulmonary blood flow  
K. Burrowes, A. Clark, A. Swan, M. Tawhai (Oxford, United Kingdom; Auckland, New Zealand)
- P2305 Association of renal dysfunction with cardiac output and right atrial pressure in pulmonary arterial hypertension  
M. van de Veerdonk, A. Vonk-Noordegraaf (Amsterdam, The Netherlands)
- P2306 Novel method for the estimation of PCWP using CINE cardiac MRI in patients with pulmonary hypertension  
A. Swift, S. Rajaram, R. Condliffe, H. Marshall, D. Capener, J. Hurdman, C. Elliot, J. Wild, D. Kiely (Sheffield, United Kingdom)
- P2307 Contrasting cardiopulmonary responses to incremental exercise in patients with schistosomiasis-associated and idiopathic pulmonary arterial hypertension with similar resting hemodynamic impairment  
F. Valois, R. Ramos, E. Ferreira, J. Arakaki, J. A. Neder, L. E. Nery (São Paulo, Brazil)
- P2308 Nitric oxide metabolite flux during exercise in pulmonary arterial hypertension  
W. Oldham, A. Janocha, P. Pappagianopoulos, S. Erzurum, A. Waxman, G. Lewis, D. Systrom (Boston, Cleveland, United States of America)
- P2309 Comparing cardiac magnetic resonance imaging in group 1 and group 4 pulmonary hypertension  
S. Hoette, N. Creuze, D. Musset, X. Jais, L. Savale, D. Natali, S. Gunther, O. Sitbon, G. Simonneau, M. Humbert, D. Chemla (Clamart, France)
- P2310 The indirect Fick method is an unfeasible method for hemodynamic assessment in pulmonary arterial hypertension patients  
S. Desole, S. Czekay, T. Bollmann, K. Lau, R. Ewert, C. M. Kaehler (Innsbruck, Austria; Greifswald, Germany)
- P2311 Incapacity to increase pulmonary blood flow determines 6 minutes walking distance in pulmonary hypertension  
G. Deboeck, R. McKenzie Ross, L. Sharples, J. Pepke-Zaba (Papworth, United Kingdom)
- P2312 A lower resting heart rate may be prognostically favourable in pulmonary arterial hypertension  
S. Ulrich, G. Suna, L. Huber, U. Treder, R. Speich (Zurich, Switzerland)
- P2313 Effect of healthy ageing on alveolar-capillary recruitment during exercise  
B. Taylor, A. Carlson, J. O'Malley, A. Miller, B. Johnson (Rochester, United States of America)
- P2314 Right heart volume load response in patients with chronic thromboembolic pulmonary hypertension (CTEPH)  
N. Khorokhordin, P. Yablonsky, A. Boyarkin, V. Golovin, T. Fedorova, E. Pavlushkov, I. Karmamov, O. Karmanov (Saint-Petersburg, Russian Federation)
- P2315 Right ventricular afterload and myocardial oxygen demand during exercise in pulmonary hypertension  
D. Chemla, Y. Papelier, S. Hoette, N. Creuze, V. Castelain, G. Simonneau, M. Humbert, P. Herve (Clamart, Le Plessis Robinson, France)
- P2316 Effects of interval exercise on cigarette smoke-induced right ventricular dysfunction in mice  
E. Hassel, A. M. Ormbostad, U. Wisløff, S. Steinshamn (Trondheim, Norway)
- P2317 Right ventricular diastolic stiffness in idiopathic pulmonary arterial hypertension  
S. Rain, T. Kind, L. Handoko, B. Boerrigter, N. Westerhof, J. van der Velden, A. Vonk-Noordegraaf, F. de Man (Amsterdam, The Netherlands)
- P2318 Right ventricular systolic and diastolic function measured by tissue Doppler imaging in various forms of pulmonary hypertension  
Y. A. Andreeva, M. A. Saidova, T. V. Martynyuk, V. P. Masenko, K. A. Zikov, A. V. Volkov, I. Y. Chazova (Moscow, Russian Federation)
- P2319 Right ventricular regional functional changes in patients with pulmonary hypertension of different etiology  
Y. A. Andreeva, M. A. Saidova, T. V. Martynyuk, V. P. Masenko, K. A. Zikov, A. V. Volkov, I. Y. Chazova (Moscow, Russian Federation)

HALL 2-16

SESSION 263

12:50 - 14:40

## Thematic Poster Session: Clinical features of pulmonary hypertension

**Chairs:** M. M. Hoeper (Hannover, Germany), J. Lordan (Northumberland, United Kingdom), M. Delcroix (Leuven, Belgium), M. Humbert (Clamart, France)

- P2320 Multislice CT angiography and pulmonary involvement in asymptomatic systemic lupus patients with antiphospholipid syndrome  
A. Abou Zeid, T. Giehta, H. El Fishawy (Cairo, Egypt)
- P2321 Thoracic affection during Behcet's disease (about 15 cases)  
N. Zaghba, N. Yassine, A. Bakhatar, A. Bahlaoui (Casablanca, Morocco)



- P2322 Prevalence of hepatopulmonary syndrome in candidates for liver transplantation in Santa Casa Hospital (Porto Alegre-Brazil)  
E. Garcia, T. F. Rebelatto, F. W. Martins, L. J. de Medeiros, R. O. de Carvalho, A. Brandão (Porto Alegre, Brazil)
- P2323 Pulmonary hypertension in subjects with autoimmune disease: Does splenic function play a role?  
R. Ruggiero, S. Crary, G. Buchanan (Dallas, United States of America)
- P2324 Pulmonary hypertension in patients with infective endocarditis  
A. P. Rebrov, E. Y. Ponomareva, E. E. Arkhangelskaya (Saratov, Russian Federation)
- P2325 Which patients with pulmonary arteriovenous malformations are dyspnoeic? Retrospective analysis of a single-centre 2005-2010 cohort  
V. Santhirapala, H. Tighe, J. Springett, H. Wolfenden, M. Hughes, J. Jackson, C. Shovlin (London, United Kingdom)
- P2326 The correlation between hepatopulmonary syndrome and cirrhosis etiological diagnosis in candidates for liver transplantation at Santa Casa Hospital  
E. Garcia, L. J. de Medeiros, F. W. Martins, T. F. Rebelatto, R. O. de Carvalho, A. Brandão (Porto Alegre, Brazil)
- P2327 Childhood pulmonary arterial hypertension: Insights from REVEAL  
R. Barst, D. Ivy, C. G. Elliott, P. Wason, A. Foreman, D. Miller, M. McGoon (New York, Aurora, Murray, South San Francisco, San Francisco, Rochester, United States of America)
- P2328 Pulmonary hypertension in lymphangiomyomatosis: Hemodynamic characteristics in a series of 20 patients  
V. Cottin, S. Harari, X. Jais, H. Mal, M. Reynaud-Gaubert, G. Prévot, R. Lazor, C. Taillé, S. Zeghmar, G. Simonneau, J. F. Cordier, M. Humbert, The GERM<sup>2</sup>O<sup>3</sup>P (Lyon, Clamart, Paris, Marseille, Toulouse, France; Milano, Italy)
- P2329 Lung injury in intravenous drug users with infective endocarditis  
E. Ponomareva, A. Roshchina, A. Rebrov (Saratov, Russian Federation)
- P2330 Endothelium dysfunction in systemic lupus erythematosus patients with pulmonary hypertension  
O. Yakovleva, A. Klekot, S. Semenenko (Vinnitsa, Ukraine)
- P2331 Differences between limited and diffuse systemic sclerosis-related pulmonary arterial hypertension  
S. Mathai, K. Kroening, L. Hummers, A. Zaiman, R. Girgis, P. Hassoun (Baltimore, United States of America)
- P2332 Prevalence of pulmonary arterial hypertension in hepatic liver transplant candidates in Santa Casa Hospital  
E. Garcia, F. W. Martins, T. F. Rebelatto, L. J. de Medeiros, R. O. de Carvalho, A. Brandão (Porto Alegre, Brazil)
- P2333 Prevalence of pulmonary arterial hypertension in the HIV cohort of the University Bonn: Results of the PAHIBO study  
S. Pabst, C. Hammerstingl, C. Schwarze-Zander, J. Ohlig, T. Nussbaum, G. Nickenig, J. Rockstroh, D. Skowasch (Bonn, Germany)
- P2334 Characteristics of PAH associated with pretricuspid shunts in the French PAH registry  
X. Jais, D. Bonnet, L. Rottat, I. Szezepanski, M. Lévy, V. Gressin, M. Humbert, O. Sitbon, G. Simonneau (Clamart, Paris, France)
- P2335 Health-related quality of life in patients with pulmonary arterial hypertension  
F. Ihle, C. Baezner, T. Meis, P. Huppmann, G. Zimmermann, S. Leuschner, V. Arias Herrera, W. von Wulffen, A. Waelde, S. Haziraj, H. Leuchte, J. Behr, C. Neurohr (Munich, Bochum, Germany)
- P2336 Systemic sclerosis associated with pulmonary arterial hypertension is most severe in African American patients  
H. El Chami, A. Campo, S. Mathai, A. Zaiman, D. Boyce, N. Lechtzin, L. Hummers, R. Girgis, P. Hassoun (Baltimore, United States of America)
- P2337 Clinical characteristics of the pulmonary hypertension (PH) in a cardiologist service  
T. Gil, C. Medina, L. Fernández, F. J. Martínez, C. Corona, P. A. Chinchurreta, J. R. Siles, F. Torres, F. Ruiz (Marbella, Spain)
- P2338 Survival and prognostic factors in patients with incident systemic sclerosis-associated pulmonary arterial hypertension from the French registry  
D. Launay, O. Sitbon, J. F. Cordier, E. Hachulla, L. Mouthon, V. Gressin, L. Rottat, P. Clerson, G. Simonneau, M. Humbert, on behalf of the French PAH Registry (Lille, Clamart, Lyon, Paris, Roubaix, France)
- P2339 Right axis deviation is a strong indicator of pulmonary hypertension in a risk population  
G. Kovacs, X. Kqiku, V. Foris, M. Tscherner, N. Troester, S. Scheidl, C. Hesse, H. Olschewski (Graz, Austria)

HALL 2-17

SESSION 264

12:50 - 14:40

**Thematic Poster Session: Clinical features of pulmonary thromboembolism****Chairs: M. Johnson (Clydebank, United Kingdom), P. Hassoun (Baltimore, United States of America)**

- P2340 A radiological grading system for risk stratification of acute pulmonary embolism: A pilot study  
A. Jayadev, K. Srikanthan, U. Gupta, A. Mahto, Z. Dabbagh, S. Saboor (London, United Kingdom)
- P2341 Correlation of levels of N-terminal pro-B-type natriuretic peptide with localization of thrombus in acute pulmonary embolism  
E. E. Akpınar, E. Sayin, E. Buyuk, M. Gulhan (Ankara, Turkey)
- P2342 Pulmonary thromboembolism during acute chest syndrome in sickle cell disease  
A. Mekontso-Dessap, J. F. Deux, N. Abidi, C. Lavenu-Bombled, G. Melica, B. Renaud, B. Godeau, S. Adnot, L. Brochard, C. Brun-Buisson, F. Galacteros, A. Rahmouni, A. Habibi, B. Maitre (Creteil, France)

MONDAY  
26

## MONDAY SEPTEMBER 26

- P2343 The sensitivity of D-dimer testing versus multislice CT in the diagnosis of postpartum pulmonary embolism in symptomatic high risk women  
I. Hassnin, M. Badawy, A. Shahin, K. Karam (Sohag, Assiut, Cairo, Egypt)
- P2344 Genetic mutations in Turkish population with pulmonary embolism and deep venous thrombosis  
E. Kupeli, H. Verdi, A. Simsek, F. B. Atac, F. Oner Eyuboglu (Ankara, Turkey)
- P2345 Does anatomic location of deep venous thrombosis affect the clinical findings and course in the patient of pulmonary embolism  
E. S. Ozgur, K. Karaca, C. Ozge, S. Atis Nayci (Mersin, Turkey)
- P2346 Prognostic value of two clinical scores in patients with acute symptomatic pulmonary embolism  
M. Ferrer Galvan, T. Elías Hernández, C. Caballero Erasos, L. Jara Palomares, L. Garcia, R. Nieto, R. Otero Candelera, D. Jimenez Castro (Seville, Madrid, Spain)
- P2347 TAPSE as a prognostic factor in hemodynamically stable pulmonary embolism  
J. L. Lobo, P. Sobradillo, I. Obieta-Fresnedo, A. Rivas, R. Valle, C. Navarro, D. Jimenez (Vitoria, Madrid, Santander, Sabadell, Spain)
- P2348 Are we screening survivors of acute pulmonary embolism (PE) for chronic thromboembolic pulmonary hypertension (CTEPH)?  
M. Wilczynska, K. Taylor (Rhyl, United Kingdom)
- P2349 Incidence of chronic thromboembolic pulmonary hypertension in patients after acute pulmonary embolism  
S. Q. Yang, Y. H. Yang, Z. G. Zhai, T. G. Kuang, J. N. Gong, J. G. Zhu, Y. D. Li, Y. F. Wu, C. Wang (Beijing, China)
- P2350 Association between right ventricular dysfunction and diameter of right descending pulmonary artery on chest X-rays in pulmonary embolism  
Y. Abul, S. Ozsu, S. Karakurt, B. Ozben, I. Durmus, A. Toprak, T. Ozlu, T. Celikel (Trabzon, Istanbul, Turkey)
- P2351 Chronic thromboembolic pulmonary hypertension associated with Klippel Trenaunay syndrome: A retrospective series of 5 patients  
A. Seferian, X. Jais, D. Montani, S. Günther, D. Natali, L. Savale, F. Parent, D. S. O'Callaghan, O. Sitbon, M. Humbert, G. Simonneau (Clamart, France)
- P2352 Clinical research of central and lung hemodynamics in patients with pulmonary thrombendarterectomy  
O. Maltseva, O. Sizov (Saint-Petersburg, Russian Federation)
- P2353 Incidental findings on computer tomography pulmonary angiograms, a UK district general hospital's experience  
A. Kamara, A. Gruffyd-Jones, T. Rahman, P. Taylor, G. Phillips (Southampton, Dorchester, United Kingdom)
- P2354 Prognostic role of serum gamma-glutamyl transferase levels in patients with pulmonary thromboembolism  
S. Ozsu, Y. Abul, S. Turkmen, Y. Bulbul, F. Oztuna, T. Ozlu (Trabzon, Turkey)
- P2355 Acute pulmonary embolism in patients of advanced age  
T. Berghaus, W. von Scheidt, M. Schwaiblmair (Augsburg, Germany)
- P2356 Incidence of recurrent thromboembolism and chronic thromboembolic pulmonary hypertension after pulmonary embolism  
E. Serasli, M. Antoniadou, N. Moisiadis, V. Michaelidis, D. Siopi, V. Tsara (Thessaloniki, Greece)
- P2357 Survey of thrombophilia causes in patient with deep vein thrombosis admitted in Sari's Imam Khomini Hospital during 2009  
A. Sharifpour, Q. Janbabaee, H. Nattaj, D. Davoodi, D. Okhovvatian, A. Nejad (Sari, Islamic Republic of Iran)
- P2358 Pulmonary anatomopathologic analysis and clinical manifestations related to different diseases in patients with pulmonary thromboembolism – An autopsy study  
A. D. Ruppert, A. de Matos Soeiro, E. R. Parra, V. L. Capelozzi (São Paulo, Brazil)
- P2359 Correlation of right ventricular ejection fraction with tricuspid annular plane systolic excursion by electrocardiogram-gated 320 slice CT in chronic thromboembolic pulmonary hypertension  
T. Sugiura, N. Tanabe, N. Funabashi, N. Kawada, Y. Matsuura, T. Juzyo, R. Nishimura, A. Sekine, N. Yanagawa, S. Sakao, Y. Kasahara, K. Tatsumi (Chiba, Japan)

HALL 2-18

SESSION 265

12:50 - 14:40

## Thematic Poster Session: Pulmonary hypertension in hypoxic lung disease

**Chairs:** A. Chaouat (Vandoeuvre-Les-Nancy, France), X. Jais (Clamart, France), P. Corris (Newcastle-Upon-Tyne, United Kingdom), S. Gaine (Dublin, Ireland)

- P2360 Late-breaking abstract: 5-HT mediates susceptibility of rats with low intrinsic aerobic capacity to hypoxia-induced pulmonary hypertension  
N. Duggan, L. Ciucan, V. Burton, O. Bonneau, D. Rowlands, M. Hussey, J. Roger (Horsham, United Kingdom)
- P2361 Spirometric corroboration of radiographic changes suggestive of COPD and influence on ventilation-perfusion scanning  
J. Abbott, S. Kinrade, A. Lakhanpal, H. Burhan (Liverpool, United Kingdom)
- P2362 Comparative effects of amlodipine and sildenafil on the NT-proBNP levels of patients with COPD-induced pulmonary hypertension  
S. Ziaie, F. Fahimi, B. Sharif-Kashani, S. Baniyasi, A. Hamraghani, J. Salamzadeh (Tehran, Islamic Republic of Iran)

- P2363 Prevalence of pulmonary hypertension and right ventricular dysfunction in patients with mixed types of ILD  
C. Andersen, S. Mellekjær, O. Hilberg, U. Simonsen, J. E. Nielsen-Kudsk, E. Bendstrup (Aarhus, Denmark)
- P2364 Non-invasive evaluation in prediction of pulmonary hypertension in patients with idiopathic pulmonary fibrosis  
F. Salajka, V. Bartoš, J. Novosad, J. Štásek, J. Bis, M. Brtko, P. Polanský, V. Koblížek, V. Sedlák (Hradec Králové, Czech Republic)
- P2365 Endothelial dysfunction in patients with chronic obstructive pulmonary disease  
N. A. Kuzubova, E. Surkova, A. Y. Gichkin, O. N. Titova, M. D. Didur (Saint Petersburg, Russian Federation)
- P2366 The influence of right ventricular diastolic functions and pulmonary hypertension on exercise limitation and their relationship with serum NT-proBNP levels in COPD  
T. Sahin Ozdemirel, B. Yetis, N. Bayraktar, S. Savas Bozbas, E. Karacaglar, G. Ulubay (Ankara, Turkey)
- P2367 Experience with pulmonary selective vasodilator treatment in COPD with severe pulmonary hypertension  
S. Ulrich, G. Suna, L. Huber, U. Treder, R. Speich (Zurich, Switzerland)
- P2368 Evaluation of left ventricular function in patients with COPD – A mono centric retrospective study  
S. Bhowmick, S. Ghosh (Kolkata, India)
- P2369 Severe pulmonary hypertension in chronic lung disease. Long term effects on gas exchange of endothelin receptor antagonists or PDE5 inhibitors  
A. Stanzola, E. Carpentieri, M. D'Alto, P. Argiento, C. Vitale, E. Romeo, M. Pitassi, A. Molino, M. Mormile, M. Sofia (Naples, Italy)
- P2370 Inhalation of a prostacyclin analog (iloprost) does not improve exercise capacity in COPD with disproportional pulmonary hypertension  
L. Boeck, M. Tamm, D. Stolz (Basel, Switzerland)
- P2371 Pulmonary hypertension and exercise performance in advanced COPD  
I. Lapteva, N. Porakhonko, E. Lapteva, I. Tishkova (Minsk, Republic of Belarus)
- P2372 Prevalence of established and exercise induced pulmonary hypertension in COPD  
J. Hilde, I. Skjorten, S. Humerfelt, V. Hansteen, M. Melsom, J. Hisdal, K. Steine (Oslo, Lorenskog, Norway)
- P2373 Arterial blood gases during exercise in chronic obstructive pulmonary disease with and without pulmonary hypertension  
I. Skjorten, J. M. Hilde, M. N. Melsom, V. Hansteen, K. Steine, S. Humerfelt (Oslo, Lorenskog, Norway)
- P2374 Experimental hypoxia-induced pulmonary hypertension is prevented by moderate exercise training in mice  
D. Peters, C. Klöpping, K. Krüger, C. Pilat, S. Katta, M. Seimetz, H. A. Ghofrani, R. Schermuly, W. Seeger, F. Grimminger, F. Mooren, N. Weissmann (Giessen, Bad Nauheim, Germany)
- P2375 Biomarkers for pulmonary hypertension in interstitial lung disease  
E. Bendstrup, S. Mellekjær, O. Hilberg, J. E. Nielsen-Kudsk, U. Simonsen, C. Andersen (Aarhus, Denmark)
- P2376 Pulmonary hypertension in obesity-hypoventilation-syndrome  
C. Kauppert, I. Dvorak, J. Gebauer, F. Kollert, F. Heinemann, M. Pfeifer, S. Budweiser (Donaustauf, Freiburg, Rosenheim, Germany)
- P2377 Left ventricle diastolic dysfunction in severe COPD and exercise tolerance  
M. López, M. Muñoz, R. Planas, E. Claver, M. J. Manuel, F. Manresa, J. Dorca, S. Santos (Barcelona, Spain)

HALL 2-19

SESSION 266

12:50 - 14:40

**Thematic Poster Session: Treatment of pulmonary hypertension****Chairs: A. Boonstra (Amsterdam, The Netherlands), L. Nicod (Lausanne, Switzerland)**

- P2378 Late-breaking abstract: Short term improvement in 6 minute walk distance predicts long term survival in *incident* idiopathic pulmonary arterial hypertension. Results from the Pulmonary Hypertension Registry of the United Kingdom and Ireland  
Y. Ling, M. Johnson, D. Kiely, R. Condliffe, C. Elliot, S. Gibbs, L. Howard, J. Pepke-Zaba, K. Sheares, P. Corris, A. Fisher, J. Lordan, S. Gaine, G. Coghlan, J. Wort, M. Gatzoulis, A. Peacock (Clydebank, Sheffield, London, Papworth, Newcastle, United Kingdom; Dublin, Ireland)
- P2379 Comparison of hemodynamic effects of inhaled nitric oxide (iNO) and inhaled epoprostenol (iEPO) in patients with pulmonary hypertension (PH)  
S. A. DeSouza, K. D. Sagliani, I. R. Preston, K. E. Roberts, A. Shah, N. S. Hill (Boston, United States of America)
- P2380 Pulmonary artery diameter and pulsatility did not decrease after vasodilator therapy lasting two years  
P. Bracciale, F. Valerio, S. Bellanova, G. Valerio, L. Mangiacotti, A. G. D'Agostino (San Pietro Vernotico, Lecce, Brindisi, Italy)
- P2381 The use of perioperative intravenous sildenafil in patients with mitral valve disease and co-existent pulmonary hypertension during cardiac surgery  
B. P. Madden, S. Sharma, E. Holden, Y. Looney, S. N. Fletcher, A. Sheth (London, United Kingdom)
- P2382 Current epoprostenol use in patients with severe pulmonary hypertension (PH): Data from the French PH registry  
E. Bergot, O. Sitbon, V. Cottin, A. Yaici, G. Prévot, L. Rottat, V. Gressin, M. Humbert, G. Simonneau (Caen, Clamart, Lyon, Toulouse, Paris, France)

MONDAY  
26

## MONDAY SEPTEMBER 26

- P2383 Effectiveness of “Korargin” in the therapy of pulmonary arterial hypertension in patients with systemic lupus erythematosus  
O. Yakovleva, A. Klekot (Vinnitsa, Ukraine)
- P2384 Impact of functional class change on survival in patients with pulmonary arterial hypertension in the REVEAL registry  
R. Barst, D. Miller, F. Beery, M. McGoon (New York, San Francisco, Rochester, United States of America)
- P2385 Inhaled treprostinil therapy in patients with pulmonary hypertension and parenchymal lung disease  
A. Schiro, A. Waxman (Boston, United States of America)
- P2386 Parenteral treprostinil for significant pulmonary arterial hypertension associated with pulmonary fibrosis: A safety study  
R. Saggat, D. Khanna, J. Belperio, S. Shapiro, R. Saggat (Los Angeles, United States of America)
- P2387 Cardiotoxic agents affect pulmonary vessels in precision-cut lung slices (PCLS)  
A. D. Rieg, R. Rossaint, S. Uhlig, C. Martin (Aachen, Germany)
- P2388 Stability and microbial properties of reconstituted and diluted epoprostenol with expanded stability  
O. Lambert, D. Bandilla, R. Iyer, L. Witchev-Lakshmanan, N. Palepu (Allschwil, Switzerland; Cherry Hill, Piscataway, Amherst, United States of America)
- P2389 The prognostic impact of follow-up assessments in patients with idiopathic pulmonary arterial hypertension  
N. Nickel, M. Hoeper, H. Golpon, K. Lars, O. Karen (Hannover, Germany)
- P2390 Cardiac output measured by rebreathing nitrous oxide for the follow-up of patient with pulmonary hypertension  
G. Deboeck, R. McKenzie Ross, J. Pepke-Zaba (Papworth, United Kingdom)
- P2391 Use of non invasive gas exchange to track pulmonary vascular responses to exercise in heart failure  
P. Woods, B. Taylor, T. Olson, B. Johnson (Rochester, United States of America)
- P2392 Is flying safe for individuals with pulmonary arteriovenous malformations and hereditary haemorrhagic telangiectasia? A questionnaire-based study  
C. Mason, C. Shovlin (London, United Kingdom)
- P2393 Is there an association between hyperthyroidism and PAH and, if yes, is pulmonary pressure decreasing after hyperthyroidism treatment?  
A. Al Husseini, S. Mizuno, J. Arroyo, N. Voelkel, D. Kraskauskas, H. Bogaard (Richmond, United States of America)
- P2394 Immunosuppression in systemic lupus erythematosus associated pulmonary arterial hypertension (SLE-APAH): Improvement in exercise and functional capacity  
Y. Sung, J. Ashouri, R. Zamanian, L. Chung (Stanford, Palo Alto, United States of America)
- P2395 Monitoring of liver function in patients with pulmonary hypertension treated with endothelin receptor antagonists: The value of a novel monitoring system  
C. Blewett, E. Lunn, D. Kiely, L. Martin, J. Hurdman, N. Hamilton, I. Armstrong, P. Septon, J. Wilkinson, R. Condliffe, C. Elliott (Sheffield, United Kingdom)
- P2396 Is there a link between long-term endothelin receptor antagonists therapy and carcinogenesis in PAH: A case series?  
H. Qureshi, Z. Safdar (Houston, United States of America)

HALL 2-20

SESSION 267

12:50 - 14:40

## Thematic Poster Session: Chest wall trauma and airway management

Chairs: K. Athanassiadi (Athens, Greece), A. Olland (Strasbourg, France), J. Torres Lanzas (Murcia, Spain)

- P2397 Surgery for late blunt traumatic diaphragmatic lesion  
D. Petrov, M. Plochev, E. Goranov, G. Yankov, S. Alexov, R. Petkov (Sofia, Bulgaria)
- P2398 Pulmonary function after phrenic nerve transfer for brachial plexus avulsion injury  
P. Beraldo, R. Gepp, L. Penna, S. Ramalho, R. Silva, E. Neri (Brasília, Brazil)
- P2399 The review of therapy of 453 thoracic trauma patients during 17-year period in a military hospital  
T. Isitmangil, N. Yiyit, F. Candas, A. Yildizhan, R. Gorur, O. Erdik, S. Sebit, H. Tunc (Istanbul, Turkey)
- P2400 Omentopexy in rabbit for the repair of diaphragmatic defect and adhesion assessment of viscera to propylene mesh  
A. Davoodabadi, M. Housseinpour, N. Golestani (Kashan, Islamic Republic of Iran)
- P2401 The role of PEF and Vas score by pain assessment after thoracoscopic interventions  
A. Rzechonek, J. Kolodziej, A. Kaminska, M. Lubicz (Wroclaw, Poland)
- P2402 Study of traumatic extrathoracic lesions associated with lung contusions  
V. Voiculescu, O. Burlacu, G. Cozma, C. Tunea, I. Miron, A. Nicodin (Timisoara, Romania)
- P2403 Effectiveness of treatment of transdermal narcotics in rib fractures  
O. Solak, H. Esme, K. Ocalan, H. V. Kara, N. Tutar (Afyon, Gumushane, Turkey)
- P2404 Chest wall stabilization with titanium clips and rib bridge: Four case reports  
K. Kavakli, E. Sapmaz, M. Dakak, O. Yucel, H. Caylak, S. Gurkok, S. Cubuk, H. Isik, A. Gozubuyuk, O. Genc (Ankara, Turkey)
- P2405 Intercostal nerve blockage for pain control in blunt thoracic trauma  
H. V. Kara, N. Tutar, S. Yesilkaya, G. Ertas, M. E. Memetoglu, K. Agladioglu, A. S. Cetinkaya (Gumushane, Turkey)

- P2406 Primary abscess of the chest wall – Case report  
C. Petreanu, V. Grigorie, C. Savu, N. Galie, E. Tabacu (Bucharest, Romania)
- P2407 Minimally invasive repair for pectus excavatum (Nuss procedure) – Aesthetic and/or functional?  
C. Grozavu, M. Ilias, D. Marin, D. Pantile (Bucharest, Romania)
- P2408 Tracheal stenosis in children, old problem, new techniques  
T. Zimmermann, R. Cesnjevar, S. Dittrich, M. Gloeckler, T. Radkow (Erlangen, Germany)
- P2409 Surgical treatment of primary malignancies of trachea  
I. Mosin, N. Mosina, O. Lukina, Y. Dorofeeva (St. Petersburg, Russian Federation)
- P2410 Congenital tracheal diverticulum seen in adult age: Two cases  
A. Eliçora, S. T. Liman, S. Topçu, A. G. Akgül, H. T. Sarisoý, S. Gümüstas, S. S. Mehmetoglu, A. Ilgazli (Kocaeli, Turkey)
- P2411 Intraoperative management of tracheobronchial ruptures after double-lumen tube intubation  
K. C. Ceylan, S. O. Kaya, O. Samancilar, O. Usluer, S. Gursoy, A. Ucvet (Izmir, Turkey)
- P2412 Perfection of diagnostic and tactic of stage-by-stage endosurgical treatment of cicatricial stenoses of a trachea  
S. Hudaybergenov, G. Pahomov, O. Eshonkhodjaev, I. Ortikali, R. Hayaliev (Tashkent, Uzbekistan)
- P2413 Evaluation of plethysmography findings as a diagnostic method for patients with post-intubation tracheal stenosis (PITS)  
S. M. R. Hashemian, H. R. Jamaati, M. B. Shadmehr, O. Aloosh, N. Negin Alizadeh Shaygh, G. Radmand (Tehran, Islamic Republic of Iran; Fairfax, United States of America)
- P2414 Difficult intubation of the esophagus or trachea stent – When cervical muscle contractures combined with the narrowing. Descriptions of cases  
A. Rzechonek, J. Kolodziej (Wroclaw, Poland)
- P2415 Transcervical versus transsternal approach of bronchial stump following pneumonectomy – Two methods in an open competition  
A. Istrate, C. Paleru, O. Danaïla, C. Lovin, D. Ulmeanu, C. N. Bolca, A. C. Bobocea, R. S. Matache, I. Cordos (Bucharest, Galati, Romania)
- P2416 Efficiency of nebulised therapy in preventive maintenance of bronchial stump insufficiency after pneumonectomy  
S. Hudaybergenov, G. Pahomov, R. Hayaliev, O. Irisov, O. Eshonhodzhaev, E. Rizaev (Tashkent, Uzbekistan)

HALL 2-21

SESSION 268

12:50 - 14:40

**Thematic Poster Session: General thoracic surgery I****Chairs: P. Yablonskiy (Saint-Petersburg, Russian Federation), A. End (Vienna, Austria)**

- P2417 Diagnostic surgical lung biopsy in hematologic patients with pulmonary complications  
L. Junker, J. Halter, F. Gambazzi, D. Stolz, L. Bubendorf, S. Savic, D. Heim, M. Stern, C. Bucher, D. Lardinois, M. Tamm (Basel, Aarau, Switzerland)
- P2418 Lung biopsy predicts outcome in bronchiolitis obliterans following allogeneic stemcell transplantation  
A. Holbro, J. Halter, S. Savic, L. Bubendorf, D. Heim, M. Stern, C. Bucher, J. Passweg, D. Lardinois, M. Tamm (Basel, Switzerland)
- P2419 VATS lung biopsy is the method of choice for patients with ambiguous pulmonary pathology to establish a morphologic diagnosis  
M. Pikunov, Y. Esakov (Moscow, Russian Federation)
- P2420 Surgical treatment for lung metastases in patients with colorectal cancer  
A. Rzechonek, J. Kolodziej, M. Lubicz (Wroclaw, Poland)
- P2421 The role of VATS in the staging of non small cell lung cancer  
R. Bagheri, Z. Haghi (Mashhad, Islamic Republic of Iran)
- P2422 Therapeutic pulmonary metastasectomy for colorectal cancer should be chosen in any disease-free interval, size of tumor, and carcinoembryonic antigen level  
M. Naruke (Tokyo, Japan)
- P2423 A rare solitary pulmonary plasmacytoma case  
H. Kiral, T. Ceylan, M. Kupeli, L. Alpay, E. Okur, I. Yalcinkaya (Istanbul, Turkey)
- P2424 Synovial sarcoma metastasis case performed aggressive pulmoner surgery  
H. Kiral, I. Ocakcioglu, M. Kupeli, A. Misirlioglu, L. Alpay, I. Yalcinkaya (Istanbul, Turkey)
- P2425 Diagnostics of single lung formations using the robotized complex «da Vinci»  
V. Klimenko, G. Nikolaev, A. Reshetov, A. Luft, A. Nohrin (Saint-Petersburg, Russian Federation)
- P2426 Castleman's disease presenting as a pleural mass in the thoracic cavity  
E. Sulu, M. O. Akbay, E. Akkutuk, F. Aksoy, G. Bektemur, H. Berk Takir, A. Yilmaz (Istanbul, Turkey)
- P2427 Salvage lung resection for local recurrence after stereotactic body radiotherapy for primary and metastatic lung cancers  
T. Terashi, H. Hamakawa, S. Neri, E. Miyamoto, K. Tomii, N. Katakami, M. Kokubo, Y. Takahashi (Kobe, Japan)
- P2428 Surgical treatment of postoperative chylothorax with thoracoscopy  
S. Khudaybergenov, G. Pahomov, O. Irisov, R. Hayaliev (Tashkent, Uzbekistan)

## MONDAY SEPTEMBER 26

- P2429 Five consecutive cases of left bronchial transcervical video mediastinoscopic closure  
C. Paleru, A. C. Bobocea, O. Danaila, A. Istrate, I. Cordos (Bucharest, Romania)
- P2430 Value of the video assisted mediastinoscopy in the thoracic pathology – Our experience  
C. Savu, V. Grigorie, C. Petreanu, N. Galie, E. Tabacu (Bucharest, Romania)
- P2431 Spontaneous pneumothorax and Marfanoid phenotype  
V. Maria, G. Svetlana, N. Galina (Omsk, Russian Federation)
- P2432 Bronchial stump insufficiency after pneumonectomy in purulent-destructive diseases of lungs  
S. Hedaybergenov, G. Pahomov, R. Hayaliev, O. Irisov, O. Eshonhodjaev, S. Rahimiy (Tashkent, Uzbekistan)
- P2433 Congenital pulmonary airway malformation in a 10 year old male adolescent  
M. N. Banque (Quezon City, Philippines)
- P2434 Latex tissue glue (LTG) application in lungs surgery and thoracic traumas for sealing lungs tissue: Suture, bronchial stump  
S. Skryabin (Murmansk, Russian Federation)
- P2435 Lung volume reduction surgery for a decompensated COPD – Case report  
C. Petreanu, C. Savu, N. Galie, G. Ciolan (Bucharest, Romania)
- P2436 Foreign body; same clinic-different diagnosis  
A. Eliçora, S. T. Liman, S. Topçu, A. G. Akgül, S. S. Mehmetoglu, T. Hosten (Kocaeli, Turkey)

HALL 2-22

SESSION 269

12:50 - 14:40

## Thematic Poster Session: Lung transplantation

Chairs: G. Verleden (Leuven, Belgium), F. Meloni (Pavia, Italy)

- P2437 LSC 2011 Abstract: T helper 17 cell involvement in COPD and lung transplantation patients  
M. Paats, I. Bergen, M. van der Eerden, B. van den Blink, P. van Hal, N. van Besouw, C. Baan, H. Hoogsteden, R. Hendriks (Rotterdam, The Netherlands)
- P2438 Comparison between referral and explant diagnoses in lung transplant recipients: Discrepancies and additional findings  
P. Jaksch, M. B. Ernst, A. Scheed, S. Geleff, G. Dekan, W. Klepetko (Vienna, Austria)
- P2439 Mortality in idiopathic pulmonary fibrosis (IPF) on the waiting list for lung transplantation in the Netherlands  
L. ten Klooster, C. van Moorsel, D. van Kessel, E. van de Graaf, J. Kwakkel-van Erp, B. Luijk, G. Nossent, P. van Hal, J. Grutters (Nieuwegein, Utrecht, Groningen, Rotterdam, The Netherlands)
- P2440 The impact of resistant bacteria in respiratory secretions on the outcome of lung transplantation  
M. Shteinberg, Y. Raviv, J. Bishara, D. Rosengarten, N. Stein, I. Bakal, M. Kramer (Haifa, Tel Aviv, Israel)
- P2441 Anxiety, depression and coping in patients awaiting lung transplantation  
T. S. Soyseth, A. Heldal, G. K. Haugstad, V. Soyseth, O. Bjortuft, M. B. Lund (Oslo, Lorenskog, Norway)
- P2442 Significance of a spirometric obstructive pattern immediately after lung transplantation  
H. Suhling, J. Rademacher, T. Welte, G. Warnecke, S. Dettmer, J. Gottlieb (Hannover, Germany)
- P2443 Probe-based confocal laser endomicroscopy in acute lung allograft rejection  
J. Yserbyt, C. Dooms, W. Janssens, G. Verleden, V. Ninane, M. Decramer, ERS President 2011 (Leuven, Brussels, Belgium)
- P2444 Frequency and characteristics of prolonged viral shedding of influenza A/H1N1 virus in lung transplant recipients  
M. M. Schuurmans, A. Zuercher, G. M. Tini, G. Fretz, C. Benden, E. W. Russi, A. Boehler (Zurich, Switzerland)
- P2445 Opto-electronic plethysmographic study of the chest volume changes after lung transplantation  
M. Laviola, E. Privitera, M. Nosotti, A. Aliverti, L. Santambrogio, D. Tosi, L. Rosso (Milano, Italy)
- P2446 Lung transplantation for pulmonary silicosis: The Israeli scene  
A. Amital, D. Shitrit, Y. Raviv, B. Medalion, I. Bakal, M. Kramer (Haifa, Petah Tiqua, Kfar Saba, Israel)
- P2447 Donor and recipient parameters affecting 1-year follow-up after lung transplant: Padova experience  
E. Balestro, E. Rossi, F. Lunardi, G. Marulli, M. Loy, F. Di Chiara, F. Calabrese, F. Rea (Padova, Italy)
- P2448 Tracheal preservation: Results with three different preservation solutions: Perfadex, EuroCollins and Celsior  
J. A. Santibanez-Salgado, A. Sotres-Vega, M. Baltazares-Lipp, M. Gaxiola-Gaxiola, J. Villalba-Caloca, D. Pérez-Covarrubias (Mexico City, Mexico)
- P2449 Clinical outcomes in patients with acute exacerbation of idiopathic pulmonary fibrosis undergoing lung transplantation  
H. Seethamraju, K. Nair, A. Parulekar, G. Dronavalli, R. Barrios, A. Mansour, M. Loebe, S. LaFrancesca, B. Bruckner, S. Scheinin, G. Noon, J. Nguyen, K. Chmielowiec, P. Kolodziejski (Houston, United States of America)
- P2450 The use of extracorporeal membrane oxygenation (ECMO) in severe delayed graft dysfunction after lung transplant  
K. Srikanthan, M. Carby, A. Simon, P. Wilton, A. Bashford, H. Krueger (London, United Kingdom)
- P2451 Validation of a non-invasive CO measurement in an isolated lung model  
M. Maignan, I. Ventrillard, S. Gennai, J. Zaccharia, G. Debaty, D. Romanini, R. Briot (Grenoble, France)
- P2452 BODE index as a predictor of survival in lung transplantation  
P. Sanjuan, I. Otero, P. J. Marcos, H. Vereja (A Coruña, Spain)
- P2453 Early development of posterior reversible encephalopathy syndrome post lung transplantation  
L. C. Morlacchi, V. Rossetti, M. DiPasquale, G. Salomoni, M. Pappalettera, P. Tarsia (Milano, Italy)

- P2454 Lung transplantation in Portugal: 2008-2010 results  
S. Granadeiro, A. Borba, L. Semedo, M. Araujo, J. Cardoso, F. Martelo, J. Fragata (Lisbon, Portugal)
- P2455 Characterization of a population referred to a lung transplantation centre in Lisbon  
S. Granadeiro, A. Borba, L. Semedo, M. Araujo, J. Cardoso, F. Martelo, J. Fragata (Lisbon, Portugal)
- P2456 Effect of BIPAP on diaphragm paralysis after single lung transplantation  
S. Shafaghi, P. Adimi, A. Fakharian, A. H. Nassiri, F. Ghorbani, S. S. M. Makki, H. R. Khoddami Vishteh, K. Najafizadeh (Tehran, Islamic Republic of Iran; Lyon, France)

## HALL 2-23

## SESSION 270

12:50 - 14:40

**Thematic Poster Session: Aetiology, diagnosis and outcomes in community-acquired pneumonia**

**Chairs:** W. Boersma (Alkmaar, The Netherlands), A. De Roux (Berlin, Germany), O. Rajas Naranjo (Madrid, Spain)

- P2457 Late-breaking abstract: The differences in clinical presentations between severe health care-associated pneumonia and severe community-acquired pneumonia: A single center experience  
G. Hong, S. W. Um, W. J. Koh, G. Y. Suh, M. P. Chung, H. J. Kim, O. J. Kwon, K. M. Jeon (Seoul, Republic of Korea)
- P2458 Viral aetiology and clinical characteristics of community-acquired pneumonia in adults in Guangzhou, China  
Z. F. Yang, Y. Q. Zhan, R. C. Chen (Guangzhou, Macau SAR, China)
- P2459 Pneumonia in patients who received health care at home – Should they be categorized as CAP or HCAP?  
T. Rikimaru, N. Hukushima, R. Toda (Fukuoka City, Japan)
- P2460 Role of viruses, alone and in association with bacteria, in adults hospitalized with community-acquired pneumonia (CAP)  
E. Mincholé, S. Fandos, A. Lasierra, A. L. Simon, M. A. Ruiz, C. Villuendas, E. Forcén, S. Bello (Zaragoza, Spain)
- P2461 The diagnostic yield of the pneumococcal urinary antigen test in clinical practice and its impact on antibiotic therapy  
W. Laijen, D. Snijders, W. Boersma (Alkmaar, The Netherlands)
- P2462 Incidence and risk factors of MRSA pneumonia  
K. Verhamme, F. Maton, K. Van Vaerenbergh, P. Jordens (Aalst, Belgium)
- P2463 Comparison of community acquired pneumonias which require admission to intensive care unit depending on etiology: Legionella vs pneumococcus  
M. Alfonso, M. Inchausti, B. Gómez, N. Marina, L. A. Ruiz, A. Gómez, S. Pedrero, I. Seijas, R. Zalacain (Barakaldo, Spain)
- P2464 Evaluation of the *legionella* V-TesT compared to the BinaxNOW to detect *legionella* serogroup 1 antigen in urine samples  
E. De Witte, K. Loens, C. Lammens, J. Almirall, H. Goossens, G. Ieven (Antwerp, Belgium; Mataro, Spain)
- P2465 Community-acquired pneumonia due to *S. aureus*  
S. Ozsari, P. Sarac, M. S. Tasbakan, A. Sayiner (Izmir, Turkey)
- P2466 A worldwide perspective of nursing home pneumonia beside community acquired pneumonia  
A. Liapikou, E. Polverino, C. Cilloniz, P. Peyrani, J. Ramirez, R. Menendez, A. Torres (Athens, Greece; Barcelona, Spain; Louisville, United States of America)
- P2467 Influence of streptococcus pneumoniae serotypes in clinical outcomes of pneumonias  
Y. Galea, B. Borjabad, D. Colón, C. Martí, E. Barbeta (Granollers, Spain)
- P2468 Pneumococcal pneumonia – Are the new severity scores more accurate in predicting adverse outcomes?  
C. Ribeiro, I. Ladeira, G. Abreu, A. R. Gaio, M. C. Brito (Vila Nova de Gaia, Porto, Portugal)
- P2469 *Clostridium difficile* infection following community-acquired pneumonia  
G. Choudhury, A. Akram, P. Mandal, G. Fleming, J. Chalmers, A. Hill (Edinburgh, United Kingdom)
- P2470 Potential value of an ELISPOT interferon gamma release assay as a diagnostic tool in Q fever infection  
G. Limonard, J. Bouwman, A. Asscheman, S. Thijsen, B. Vlamincx, A. Bossink (Utrecht, Nieuwegein, The Netherlands)
- P2472 Bacterial co-infections in community acquired pneumonia cases of 2009 pandemic-influenza A (H1N1) virus in Spain  
C. Cillóniz, R. Menendez, S. Ewig, E. Polverino, M. Ferrer, A. Gabarrus, M. A. Marcos, J. Mensa, A. Torres (Barcelona, Valencia, Spain; Bochum, Germany)
- P2473 Characteristics and predictors of mortality in patients with pleural infection  
R. Taylor, S. Murphy, A. Melville (Sunderland, Ashington, United Kingdom)
- P2474 Multicentric pneumonia caused by intravenous substances, a series of three cases  
R. Geamalinga, D. Zaharia, S. Dumitrache-Rujinski, M. Bogdan (Bucharest, Romania)
- P2475 Slow recovering of altered autonomic cardiac control in patients with community acquired pneumonia  
R. Zulkarneev, S. Zagidullin, N. Zagidullin, V. Bakirova (Ufa, Russian Federation)

**Thematic Poster Session: Assessment of severity and predictors of outcomes in community-acquired pneumonia**

**Chairs:** T. Bauer (Berlin, Germany), S. Ott (Berlin, Germany), M. Sucena (Leca Da Palmeira, Portugal)

- P2476 CURB65 versus PSI in assessing the severity of CAP of elderly patients  
R. Peris Sánchez, E. Fernández-Fabrellas, A. Cervera, M. C. Aguar, J. Blanquer, E. Chiner, F. Sanz, M. L. Briones, J. N. Sancho-Chust, C. Senent (Valencia, Spain)
- P2477 Role of angiopoietins Ang-1 and Ang-2 for the development of acute lung injury in pneumococcal pneumonia  
B. Gutbier, K. Reppe, A. K. Neuhaus, A. Santel, J. Kaufmann, N. Weissmann, L. Morawitz, T. J. Mitchell, N. Suttorp, M. Witzernath, The CAPNETZ Study Group (Berlin, Giessen, Hannover, Germany; Glasgow, United Kingdom)
- P2478 Differences between local and systemic inflammatory response in patients with community acquired pneumonia (CAP)  
L. C. Morlacchi, S. Aliberti, S. Seghezzi, V. Giunta, F. Giuliani, S. Galbiati, B. Dallari, A. Gramegna, M. Di Pasquale, G. Spoletini, A. M. Brambilla, J. Bordon, F. Blasi (Milano, Monza, Italy; Washington, United States of America)
- P2479 Validity of CRB-65 in LRTI in primary care: A prospective study in 12 European countries  
S. Coenen, T. Verheij, G. Ieven, C. Lammens, C. Butler, P. Little, H. Goossens, on behalf of the GRACE Project Group (Antwerp, Belgium; Utrecht, The Netherlands; Cardiff, Southampton, United Kingdom)
- P2480 Vascular events following hospitalisation for community acquired pneumonia  
A. R. Akram, J. D. Chalmers, A. Singanayagam, G. B. Fleming, J. K. Taylor, D. Mills, A. T. Hill (Edinburgh, United Kingdom)
- P2481 Clinical failure in hospitalized patients with community acquired pneumonia (CAP): Preliminary results from the FAILCAP study  
S. Aliberti, L. Morlacchi, A. Gramegna, E. Parazzini, D. Stolz, L. Ruvolo, F. Karrer, G. Cervi, R. Cosentini, A. Zanaboni, A. Marruchella, E. Magni, P. Peyrani, A. Pesci, J. Ramirez, F. Blasi (Monza, Milan, San Donato Milanese, Modena, Italy; Basel, Switzerland; Louisville, United States of America)
- P2482 Does it matter which set of observations are used to calculate the CURB65 score for pneumonia?  
M. Gautam, K. Lyulcheva, Z. Estabragh, J. Naveed, P. Deegan (Liverpool, United Kingdom)
- P2483 Severe complicated pneumococcal pneumonia in young adults  
S. Ellis, M. Harris, S. Shuttleworth, C. Taylor, A. A. Lwin (Southampton, United Kingdom)
- P2484 Role of pneumococcus urinary antigen testing in the clinical presentation and outcome of pneumococcal bacteraemic community acquired pneumonia  
L. A. Ruiz, M. Alfonso, A. Gomez, S. Pedrero, N. Marina, M. Inchausti, I. Seijas, C. Jaca, R. Zalacain (Barakaldo, Spain)
- P2485 Is pneumonia in elderly an enigma: A study from a multispecialty hospital in rural India  
B. N. B. M. Prasad, C. A. Tukaram (Wellington Barracks, The Nilgiris District, India)
- P2486 Prospective comparison between chest ultrasound and X-ray in two planes in patients with suspected community-acquired pneumonia. Intermediate results (02/2011) of a prospective multicenter DEGUM-/ÖGUM-study  
A. Reissig, C. Mempel, R. Copetti, A. Schuler, S. Aliberti, P. Zechner, A. Heinzmann, R. Neumann, G. Mathis, C. Kroegel (Jena, Geislingen, Reutlingen, Germany; Tolmezzo, Milan, Italy; Graz, Rankweil, Austria)
- P2487 Does a clinical score helps in the management of hospital-acquired pneumonia in nonventilated patients?  
B. Herer, Z. Gazevic (Férolles Attilly, France)
- P2488 Comparison of four systems for assessing severity of community acquired pneumonia  
T. Abreu, T. Lopes, M. Anciães, D. Ferreira, S. Salgado, G. Duarte (Lisbon, Portugal)
- P2489 Value of serum procalcitonin levels in the differential diagnosis of pneumonia and pulmonary embolism  
A. Yeter, G. Camsari, G. Ozkan, A. Gur, N. D. Bakan, M. Bayram (Istanbul, Turkey)
- P2490 The value of exhaled breath condensate 'pH' to evaluate the severity of disease and the response to treatment in patients with community acquired pneumonia  
D. Arik, C. Tasci, M. Ozkan, H. Bilgic, C. Acikel, I. Kurt (Ankara, Turkey)
- P2491 Cost and outcomes of pneumococcal community-acquired pneumonia among adults in the United Kingdom  
A. Charos, P. Balmer (Walton Oaks, United Kingdom)
- P2492 Relationship between the presence of hypoxemia and the inflammatory response measured by C-reactive protein in bacteremic pneumococcal pneumonia  
F. Sanz, C. Gimeno, T. Lloret, N. Tormo, M. Briones, E. Fernández, A. Cervera, M. C. Aguar, E. Chiner, J. Blanquer (Valencia, Alacant, Spain)
- P2493 Usefulness of serum cortisol in assessment for the severity of community-acquired pneumonia  
M. S. Kim (Changwon, Republic of Korea)
- P2494 Community acquired pneumonia in a Greek hospital: Adherence of Greek doctors to the IDSA/ATS and national guidelines  
C. Triantafyllidis, V. Kapordelis, G. Papaetis, D. Orfanidou, M. Apostolidou, I. Nikolopoulos, A. Pefanis (Athens, Greece)
- P2495 Ventilator-associated pneumonia in surgical intensive care unit: Risk factors for mortality and survival period  
H. Shoji, T. Takuma, K. Yoshida, Y. Niki (Tokyo, Japan)



HALL 2-25

SESSION 272

12:50 - 14:40

**Thematic Poster Session: New aspects in prevention and treatment of community-acquired pneumonia and lower respiratory tract infections****Chairs: C. Luna (Buenos Aires, Argentina), A. Hill (Edinburgh, United Kingdom)**

- P2496 Late-breaking abstract: Clinical and radiological characteristics of cytomegalovirus pneumonia in immunocompromised patients  
S. Juthong, A. Jirarat (HatYai, Thailand)
- P2497 Late-breaking abstract: Relationship of asthma to outcome in influenza A/H1N1 2009 infection: FLU-CIN cohort study  
M. Semple, W. S. Lim, P. Myles, J. Enstone, P. Openshaw, R. Read, B. Taylor, J. McMenamin, B. Bannister, K. Nicholson, J. Nguyen-Van-Tam, J. N. V. T. Nguyen-Van-Tam (Liverpool, Nottingham, London, Sheffield, Portsmouth, Glasgow, Leicester, United Kingdom)
- P2498 Experimental rhinovirus infection in moderate asthma  
D. Jackson, M. B. Trujillo-Torralbo, J. Del-Rosario, J. Aniscenko, S. Johnston (London, United Kingdom)
- P2499 Serum microRNA signatures identified in a genome-wide profiling predict the mortality of patients with sepsis  
L. Xie, H. Wang (Beijing, Tianjin, China)
- P2500 Reduction of oxidative stress in successfully treated patients with community acquired pneumonia (CAP), as measured by redox status of coenzyme Q10 (%CoQ-10)  
K. Honda, H. Wada, M. Tamura, S. Takata, T. Koide, M. Nakamura, H. Ishii, D. Kurai, T. Saraya, K. Fujii, S. I. Hagiwara, Y. Yamamoto, H. Goto (Tokyo, Tochigi, Japan)
- P2501 *Nontypeable* haemophilus influenzae (NTHi) leads to caspase-1-dependent upregulation of interleukin 1-beta (IL-1 $\beta$ ) in respiratory cells and human lung tissue – A role of the “inflammasome” in respiratory tract infections  
J. Rotta detto Loria, K. Rohmann, T. Goldmann, J. Rupp, D. Droemann, K. Dalhoff (Luebeck, Borstel, Germany)
- P2502 Joint use of specific and nonspecific means for prevention of pneumonia in recruits  
P. Ogarkov, S. Zhogolev, K. Jogolev (St. Petersburg, Russian Federation)
- P2503 The use of influenzal (IV) and pneumococcal (PV) vaccine in patients, staff and visitors at a university hospital in two periods  
P. Fescina, V. Martin, F. Ramundo, G. Lonegro, I. Palma, C. M. Luna (Buenos Aires, Argentina)
- P2504 Procalcitonin in pleural fluid: A new tool for the diagnosis of empyema and parapneumonic pleural effusions?  
E. Hoguet, C. Andrejak, A. M. Bourgeois, C. Dayen, V. Jounieaux, Y. Douadi (Amiens, Saint Quentin, France)
- P2505 Hyaluronic acid levels are increased in parapneumonic pleural effusions  
T. Zaga, D. Makris, I. Tsilioni, S. Oikonomidi, T. Kyropoulos, A. Damianos, K. Gourgoulialis (Larissa, Athens, Greece)
- P2506 Compliance with CURB-65 score and the consequences of no implementation  
Q. Guo, H. Y. Li, Y. P. Zhou, M. Li, X. K. Chen, H. Liu, H. L. Peng, H. Q. Yu, X. Chen, N. Liu, L. H. Liang, Q. Z. Zhao, M. Jiang (Shenzhen, Guangzhou, China)
- P2507 Viral vs bacterial community-acquired pneumonia: Radiologic features  
A. Robles, A. San Gil, V. Pascual, E. Calbo, E. Viladot, S. Benet, B. Barreiro, E. Cuchi, J. Torres, L. Canales, J. A. De Marcos, J. Perez, J. Garau (Terrassa, Spain)
- P2508 Metapneumovirus pneumonia in allogeneic stemcell transplant recipients  
A. Egli, J. Halter, D. Heim, M. Stern, C. Bucher, H. Hirsch, M. Tamm (Basel, Switzerland)
- P2509 Non-tuberculous infections in patients with TNF-alpha-antagonist treatment  
T. Cagatay, A. Erer, S. Karaosman, G. Okumus, N. Oktay, B. Ozcelik, P. Cagatay, Z. Kilicaslan, Z. Gulbaran (Istanbul, Turkey)
- P2510 Do prognostic factors help physicians in predicting legionellosis' respiratory complications?  
S. Seghezzi, M. Di Pasquale, C. Bonino, E. Prina, S. Aliberti, F. Nicoli, A. M. Brambilla, R. Cosentini (Milan, Monza, Italy)
- P2511 Clinical stability in patients with community- acquired pneumonia (CAP)  
T. Pejic, I. Stankovic, I. Djordjevic, Z. Ciric, T. Radenovic-Petkovic, D. Nastasijevic, M. Radovic (Nis, Republic of Serbia)
- P2512 *Chlamydia pneumoniae*(Cp)-specific IgE is associated with asthma severity  
D. Hahn, K. Patel, E. Drizik, W. Webley (Madison, Amherst, United States of America)
- P2513 Chlamydia pneumoniae infection in patients with mild asthma  
D. Dokic, S. Aziri, E. Trajkovska-Dokic, D. Karkinski (Skopje, FYROM)

HALL 2-26

SESSION 273

12:50 - 14:40

**Thematic Poster Session: Infection in the immunocompromised host: infrequent aetiologies****Chairs: M. Van Der Eerden (Rotterdam, The Netherlands), M. Kolditz (Dresden, Germany), S. Nesterovich (Tomsk, Russian Federation)**

- P2514 Experimental fatal pneumonia due to Burkholderia cenocepacia: Differential involvement of toll-like receptors (TLRs) 4 and 5  
V. Balloy, H. Nagel, R. Ramphal, M. Si-Tahar, M. Chignard (Paris, France; Gainesville, United States of America)

## MONDAY SEPTEMBER 26

- P2515 Sensitivity to *bordetella pertussis* in asthmatic patients  
A. Nakamura, Y. Iwashima, O. Takakuwa, S. Sato (Nagoya, Japan)
- P2516 Chronic pulmonary aspergillosis: Characteristics of 30 nonimmunocompromised patients  
B. Camara, B. Lebeau, C. Saint-Raymond, G. Ferretti, J. Cadranel, H. Pelloux, C. Pison (Grenoble, Paris, France)
- P2517 An air-fluid level in the cavity is the sign of the exacerbation in chronic pulmonary aspergillosis  
Y. Yatagai, T. Saito, Y. Umetsu, S. Fukai (Naka-Gun Tokai-Mura, Japan)
- P2518 Aspergillus-PCR in bronchoalveolar lavage for detection of invasive fungal disease in immunocompromised patients  
M. Buess, G. Cathomas, J. Halter, L. Junker, P. Grendelmeier, M. Tamm, D. Stolz (Basel, Liestal, Switzerland)
- P2519 Role of bronchoscopy in non-HIV immunocompromised patients  
H. Ip, C. Kosky, A. Collett (London, United Kingdom)
- P2520 Virological analysis on bronchoalveolar lavage fluid (BALF): Diagnostic yield and indications  
J. S. Poineuf, S. Jouneau, S. Minjolle, P. Tattevin, P. Delaval, B. Desrues (Rennes, France)
- P2521 The role of fiberoptic bronchoscopy (FOB) in the management of pulmonary disease in the immunocompromised (IC) host  
S. Saha, J. Creaser, C. Elliot, S. Bianchi (Sheffield, United Kingdom)
- P2522 *In vivo* imaging of rat experimental invasive pulmonary aspergillosis using fibred confocal fluorescence microscopy  
H. Morisse, L. Heyman, M. Salaun, L. Favenc, J. M. Picquenot, P. Bohn, L. Thiberville (Rouen, France)
- P2523 Clinical characteristics of surgically-diagnosed pulmonary cryptococcosis  
A. Ito, H. Tachibana, T. Ishida (Kurashiki-City, Japan)
- P2524 Alterations of surfactant phospholipids in lungs with chronic recurrent respiratory chlamydial infection  
P. Reinhold, M. Rothe (Jena, Berlin, Germany)
- P2525 Pulmonary and systemic inflammation in a domestic animal model of respiratory *chlamydomydia psittaci* infection: Evaluation of dose-response relationships  
C. Ostermann, A. Vogel, W. Schroedl, A. Berndt, E. Schubert, K. Sachse, P. Reinhold (Jena, Leipzig, Germany)
- P2526 Radiological features and their associations with clinical and laboratory findings in adults with *mycoplasma pneumoniae* pneumonia  
Q. Guo, H. Y. Li, Y. P. Zhou, M. Li, X. K. Chen, H. Liu, H. L. Peng, H. Q. Yu, X. Chen, N. Liu, L. H. Liang, Q. Z. Zhao, M. Jiang (Shenzhen, Guangzhou, China)
- P2527 Prevalence of zoonotic chlamydiae in dairy cattle and contact persons  
S. Kühlewind, K. Sachse, P. Reinhold, E. Schubert, J. Kronsbein, M. Ulbrich, B. Schärting, D. Theegarten, N. Matzner, J. Behr, G. Schultze-Werninghaus, G. Rohde (Bochum, Jena, Essen, Germany; Maastricht, The Netherlands)
- P2528 Serum KL-6 elevation related with severity in patients with pneumocystis pneumonia  
Y. Wada, T. Yokoyama, T. Horiuchi, H. Yamamoto, K. Kubo (Matsumoto, Japan)
- P2529 Prevalence and pattern of pulmonary infections among HIV/AIDS adults patients admitted to a tertiary care hospital, Dubai, United Arab Emirates, 2009-2010  
L. Al-Dabal, S. Badreddin, A. Abro, N. Younis Javeed (Dubai, United Arab Emirates)
- P2530 Severe pulmonary infections due to biological therapy of rheumatic diseases  
G. Lupkovich, C. Kiss, A. Lantos, E. Fajt, A. Paraczki, E. Tolnay (Torokbalint, Hungary)
- P2531 Clinical manifestations and a prognostic factor of pneumocystis pneumonia without HIV infection  
N. Asai, Y. Ohkuni, R. Matsunuma, K. Nakashima, H. Makino, T. Nakashita, Y. Otsuka, S. Motojima, N. Kaneko (Kamogawa, Japan)
- P2532 Acute LRT infections among patients with shingles  
L. Zabaznoska, V. Semenakova, S. Bogoeva (Skopje, FYROM)
- P2533 Clinical and evolutive patterns of respiratory infections in patients with HIV/AIDS from Timis County, Romania  
I. Marincu, L. Negrutiu, S. Mihaicuta, I. Iacobiciu, N. Bertici, C. Ardelean, I. Todor, A. Neghina, C. Oancea, S. Frent, R. Neghina (Timisoara, Alba Iulia, Romania)

HALL 2-27

SESSION 274

12:50 - 14:40

### Thematic Poster Session: *Pseudomonas aeruginosa* infection and non-cystic fibrosis bronchiectasis

**Chairs: M. Tamm (Basel, Switzerland), M. Vendrell Relat (Girona, Spain)**

- P2534 Health status impact of ciprofloxacin dry powder for inhalation in patients with non-cystic fibrosis bronchiectasis  
B. Hampel, O. Schoeman, P. Reimnitz, P. Jones, R. Wilson (Berlin, Wuppertal, Germany; London, United Kingdom)
- P2535 *Pseudomonas aeruginosa* sensitivity changes to antibiotics under the influence of dissolved ozone  
A. Plotnikova, I. Belyanin, L. Selina, E. Shmelev (Moscow, Russian Federation)
- P2536 Influence of antibiotic resistance of *pseudomonas aeruginosa* on presenting features of community-acquired lower respiratory tract infections  
P. Nikolova, Y. Ivanov, P. Pavlov, T. Popova, E. Borissova, P. Hristova (Pleven, Bulgaria)
- P2537 Nebulized antibiotics in patients with non-cystic fibrosis bronchiectasis and chronic *pseudomonas aeruginosa* infection  
J. R. Donado-Uña, C. Jiménez-Navarro, M. E. Fuentes-Salazar, J. M. Ruiz-Giardin, M. A. Racionero-Casero, V. Valeri-Busto, E. Prats-Graciá, A. Zapatero-Gaviria (Fuenlabrada, Spain)

- P2538 Mannose binding lectin deficiency is associated with disease severity in patients with non-cystic fibrosis bronchiectasis  
J. D. Chalmers, D. Kilpatrick, B. McHugh, P. Mandal, M. Smith, C. Doherty, J. Govan, A. T. Hill (Edinburgh, United Kingdom)
- P2539 Effects of subinhibitory concentrations of antibiotics on the biofilm formation of *Pseudomonas aeruginosa*  
H. Jiang, J. Li (Qingdao, China)
- P2540 Serum bactericidal activity in non cystic fibrosis bronchiectasis in patients with *Pseudomonas aeruginosa* colonisation  
D. Whitters, T. Wells, R. Stockley (Birmingham, United Kingdom)
- P2541 Sputum neutrophils are related to functional status in non-cystic fibrosis bronchiectasis in subjects in airway colonization  
F. L. Dente, L. Malagrino, F. Costa, L. Melosini, A. Di Franco, M. L. Bartoli, C. Ferretti, M. De Santis, E. Bacci, P. L. Paggiaro (Pisa, Italy)
- P2542 Survey of microbiology, *Pseudomonas* eradication and antimicrobial prophylaxis in adult patients with non-cystic fibrosis bronchiectasis  
R. Bhatnagar, N. Withers (Exeter, United Kingdom)
- P2543 Inhaled antibiotic treatment. Tolerance, compliance and quality of life  
A. Alvarez, L. Ruano, M. Vendrell, R. Giron, M. P. Ausin, M. A. Martínez, M. Blanco, D. de la Rosa, D. Blanquer, I. Herrero, J. de Gracia (Barcelona, Girona, Madrid, Requena, A Coruna, Manacor, Zaragoza, Spain)
- P2544 Azithromycin, a novel maintenance therapy in patients with chronic non-CF suppurative lung disease  
S. Twite, P. Stockton, S. Agarwal (Liverpool, United Kingdom)
- P2545 Airflow obstruction, functional disability and psychological dysfunction in bronchiectasis  
G. Miller, H. Haja Mydin, A. De Soyza (Newcastle upon Tyne, United Kingdom)
- P2546 *Staphylococcus aureus* sensitivity changes to antibiotics under the influence of dissolved ozone  
A. Plotnikova, I. Belyanin, L. Selina, E. Shmelev (Moscow, Moscow, Russian Federation)
- P2547 Identification of four different metallo- $\beta$ -lactamases, IMP-1, IMP-7, IMP-19 and VIM-2, in Japanese general hospitals  
N. Shibata, H. Ohbayashi (Mizunami, Japan)
- P2548 Anxiety and depression in patients with bronchiectasis related to bacterial colonization  
G. Fernandes, C. Martín-Carbajo, R. Girón, E. Vazquez, R. Gómez-Punter, C. Cisneros, L. Ramos, C. Rosado, J. Ancochea (Madrid, Zamora, Salamanca, Spain)
- P2549 Microbiological pattern in infective episodes of bronchiectasis  
A. Khoury, H. Ismaeil, H. Hannan (Aleppo, Syrian Arab Republic)
- P2550 The role of viruses and other atypical bacteria in bronchiectasis' exacerbations  
E. Balis, E. Metaxas, D. Chrysovergi, I. Papaparaskeuas, N. Spanakis, G. Tatsis, A. Tsakris (Athens, Greece)

## HALL 2-28

## SESSION 275

12:50 - 14:40

**Thematic Poster Session: Antimicrobial treatment and resistance in lower respiratory tract infections****Chairs: A. Sayiner (Izmir, Turkey), N. Stanton (Cardiff, United Kingdom), P. Mallia (London, United Kingdom)**

- P2551 Late-breaking abstract: When is pleural fluid microbiology useful?  
K. Woolnough, I. Hussain (Stoke-on-Trent, United Kingdom)
- P2552 Late-breaking abstract: Inhaled calcium based dry powder inhibits rhinovirus-induced inflammation and exacerbation in a mouse model of allergic airway inflammation  
P. Wright Andreotta, S. Kong, T. Brogan, S. Arold, P. Okerholm, F. Saia, R. Clarke, D. Hava (Lexington, United States of America)
- P2553 Late-breaking abstract: Prevalence of influenza A H1N1 virus infection in patients with asthmatic crisis of the National Institute of Respiratory Diseases (in Mexico City)  
O. Sánchez Cabral, J. Rodríguez Barragán, M. D. J. Castillejos López (Mexico, Mexico)
- P2554 Macrolide therapy is associated with lower 30-day mortality in patients with non-pneumonia and pneumonia severe sepsis  
M. Restrepo, E. Mortensen, L. Copeland, B. Nakashima, M. Pugh, A. Anzueto (San Antonio, Temple, United States of America)
- P2555 Antimicrobial resistance genotype trends and association with host clinical characteristics in respiratory isolates of *Haemophilus influenzae*  
E. Hagiwara, N. Tsuchiya, T. Enomoto, T. Baba, T. Shinohara, R. Nishihira, S. Komatsu, T. Kato, T. Ogura, H. Takahashi (Yokohama, Japan)
- P2556 Prior outpatient antibiotic use in patients with community acquired pneumonia (CAP) admitted in hospital  
C. Senent, E. Chiner, J. N. Sancho-Chust, A. Cervera, E. Fernández-Fabrellas, J. Blanquer, F. Sanz, M. del Carmen Aguar (San Juan, Valencia, Castellón, Spain)
- P2557 Clinical outcomes of tigecycline in the treatment of critically ill patients with multidrug-resistant *Acinetobacter baumannii* infection  
J. A. Shin, H. J. Kim, M. K. Byun (Seoul, Republic of Korea)

## MONDAY SEPTEMBER 26

- P2558 Randomised controlled trial of sequential intravenous and oral azithromycin compared with intravenous ceftriaxone followed by cefixime both in combination with clarithromycin in hospitalized patients with community-acquired pneumonia  
A. Etemadi, A. Ardeshirzadeh, M. Maaleki, A. Chenaneh, S. Ahmadi (Ahvaz, Islamic Republic of Iran)
- P2559 Effectiveness of once daily meropenem for the treatment of aspiration pneumonia of elderly patients in long-term care facilities  
A. Etemadi, P. Salehi, K. Etemadi (Ahvaz, Islamic Republic of Iran)
- P2560 Potential protective role of prior to diagnosis antibiotic treatment in community-acquired pneumonia: Clinical presentation and outcomes  
F. Sanz, E. Fernández, A. Cervera, M. C. Aguar, M. Briones, E. Chiner, C. Senent, J. Sancho, J. Blanquer (Valencia, Spain)
- P2561 Antibiotic prescription patterns in hospitalized patients with community-acquired pneumonia in local hospital: 10 year follow-up  
A. Vigel, G. Lysenko (Kazan, Russian Federation)
- P2562 Clinical efficacy of bolus versus continuous-infusion of piperacillin-tazobactam in VAP treatment  
S. Ziaie, F. Fahimi, H. R. Jamaati, P. Tabarsi, S. Bani Asadi, S. Ghafari, S. M. R. Hashemian (Tehran, Islamic Republic of Iran)
- P2563 Difference of patient background with pneumonia between monotherapy and combination  
M. Shibasaki, M. Nishikawa, Y. Kitagawa, K. Senda, K. Nakashima, F. Mizokami (Oobu, Japan)
- P2564 Auditing patterns of azithromycin use in respiratory disease  
D. Hodgson, R. Hurford, T. Harrison, D. Shaw (Nottingham, United Kingdom)
- P2565 PcrV antibody prophylaxis in combination with antibiotic therapy reduces lung injury and improves survival in pseudomonas aeruginosa infected mice  
Y. Song, M. Baer, R. Srinivasan, J. Lima, G. Yarranton, C. Bebbington, S. Lynch (Shanghai, China; San Francisco, United States of America)
- P2566 Are multi-drug resistant (MDR) pathogens related to higher mortality in pneumonia?  
S. Seghezzi, M. Di Pasquale, S. Aliberti, G. Marullo, V. Monzani, A. M. Brambilla, R. Cosentini (Milan, Monza, Italy)
- P2567 Implementation of severity guided antibiotic treatment according to Dutch guidelines in hospitalized patients with community-acquired pneumonia (CAP) included in a clinical trial  
D. Snijders, C. de Graaff, T. van der Werf, W. Boersma (Alkmaar, Groningen, The Netherlands)
- P2568 Effect of benzylpenicillin-ciprofloxacin vs. ceftriaxon-ciprofloxacin in treatment of massive pneumonia (CAP-community acquired pneumonia)  
V. Radosavljevic, M. Obradovic, N. Petrovic (Belgrade, Republic of Serbia)

HALL 2-29

SESSION 276

12:50 - 14:40

## Thematic Poster Session: Clinical tuberculosis

**Chairs:** I. Katjitaey (Bachbrecht Windhoek, Namibia), W. De Lange (Groningen, The Netherlands), I. Solovic (Vysne Hagy, Slovakia), F. Marchesani (Pavia, Italy)

- P2570 A cost optimization approach to occupational health screening for tuberculosis  
A. Adanijo, O. Elekima (London, United Kingdom)
- P2571 Predictors of delayed sputum culture conversion in tuberculosis patients  
P. Caetano Mota, A. Carvalho, I. Valente, R. Braga, R. Duarte (Porto, Vila Nova de Gaia, Portugal)
- P2572 Clinical, epidemiological and evolving profile of miliary tuberculosis: Study of 48 cases  
N. Zaghba, A. Bakhtar, N. Yassine, A. Bahlaoui (Casablanca, Morocco)
- P2573 Completion of treatment for latent tuberculosis infection  
C. C. Dobler, G. B. Marks (Sydney, Australia)
- P2574 Differences between age related clinical presentation of pulmonary tuberculosis (TB)  
R. Nedelcu, O. C. Deleanu, D. Pocora, A. Malaut, I. Rohan, A. Macri, R. Nemes, R. Ulmeanu, F. D. Mihaltan (Bucharest, Romania)
- P2575 Causes of delay in the diagnosis of pulmonary tuberculosis  
J. Alves, D. Mendonça, A. Correia, R. Duarte (Porto, Portugal)
- P2576 The effect of smoking on the treatment outcome in patients with pulmonary tuberculosis: A prospective cohort study  
M. Castillo, M. E. Limpin (Quezon City, Philippines)
- P2577 Pulmonary tuberculosis – Still a challenging diagnosis  
I. N. Belaconi, C. L. Toma, C. Ene, S. Dumitrache-Rujinski, A. Mihai, A. Serbescu, C. T. Saon, M. G. Orghidan, M. A. Bogdan (Bucharest, Romania)
- P2578 Miliary tuberculosis: About 16 cases  
F. Chermiti Ben Abdallah, G. Ben Ali, R. Mahouachi, A. Chtourou, S. Taktak, A. Ben Kheder (Ariana, Tunisia)
- P2579 Miliary tuberculosis: Diagnosis difficulties and prognosis factors  
S. Aouadi, M. Mjid, S. Maalej, I. Bachouche, A. Ghariani, M. Bourguiba, A. Ben Kheder, I. Drira (Ariana, Tunisia)

- P2580 Miliary tuberculosis in immunocompetent and BCG vaccinated patients  
N. Ben Salem, N. Chaouch, M. Loukil, M. Zarrouk, S. Cheikh Rouhou, H. Racil, A. Chabbou (Ariana, Tunisia)
- P2581 Genitourinary tuberculosis and its association with infertility in women  
C. Iravatham, P. Chelluri, H. Hussain, A. Shoeb, V. Marri (Hyderabad, India)
- P2582 Diagnostics of lung cancer in antituberculosis departments  
P. Kryvanos, H. Tamashakina, D. Kryvanos (Minsk, Republic of Belarus)
- P2583 Intensive care of patients with tuberculosis  
A. Skrahin, M. Dziusmikeyeva, A. Prasmytski, D. Pechinski, V. Slodovnikova, V. Kralko, A. Astrauko, A. Skrahina (Minsk, Republic of Belarus)
- P2584 Characteristics of patients with pulmonary tuberculosis in intensive care unit  
D. Tatar, P. Cimen, O. Edipoglu, C. Kirakli, E. Ozden, A. Ozsoz (Izmir, Turkey)
- P2585 Effect of pulmonary arterial hypertension on outcome of pulmonary tuberculosis  
M. Marjani, P. Baghaei, M. Malekmohammad, P. Tabarsi, M. R. Masjedi (Tehran, Islamic Republic of Iran)
- P2586 Pulmonary tuberculosis with polyneuro-radiculopathy: Not forget Guillain Barré syndrome!  
A. Kotti, H. Daghfous, W. Bouhawel, O. Kahloul, L. Slim, F. Tritar (Ariana, Tunisia)
- P2587 Frequency of tuberculosis on bronchial anthracosis, systematic review and meta-analysis  
M. Mirsadraee, A. Saffari, M. Sarfraz, M. Meshkat (Mashhad, Islamic Republic of Iran)
- P2588 Vitamin-D supplementation in patients with new smear positive pulmonary tuberculosis (PTB) with reference to sputum conversion  
G. N. Srivastava, S. Chaudhry, H. Kumar, S. K. Singh (Varanasi, India)
- P2589 Steroids related tuberculosis: Does a subgroup require a more cautious approach?  
A. Afridi, M. Labrador, C. O'Rourke, J. Nation, N. Nathani (Birmingham, United Kingdom)

HALL 2-30

SESSION 277

12:50 - 14:40

**Thematic Poster Session: Management of tuberculosis**

**Chairs: J-P Zellweger (Fribourg, Switzerland), A. Antunes (Vila Nova Gaia, Portugal), P. D. O. Davies (Liverpool, United Kingdom), L. Codecasa (Milan, Italy)**

- P2590 Determining psychological characteristics of newly diagnosed TB patients using Lüscher test  
L. Pankratova, N. Kazimirova (Saratov, Russian Federation)
- P2591 Using SF-36 in assessment of quality of life in patients cured of pulmonary tuberculosis  
M. Chushkin, B. Maliev, A. Belevskiy, N. Meshcheryakova, S. Bukhareva, S. Smerdin (Moscow, Russian Federation)
- P2592 Knowledge, attitudes, practices and barriers to care among tuberculosis patients in the Republic of Macedonia  
S. Talevski, D. Gudeva-Nikoska, S. Stojanovik, C. Colvin (Skopje, FYROM; Washington, United States of America)
- P2593 Adults without HIV infection hospitalised for tuberculosis – Clinical and drug sensitivity profiles  
N. Teixeira, T. Carvalho, I. Gomes, J. Agostinho Marques (Porto, Portugal)
- P2594 Post-menopausal mammary tuberculosis – Report of three cases  
K. Bouti, K. Marc, R. Zahraoui, J. Benamor, J. E. Bourkadi, M. Soualhi, G. Iraqi (Rabat, Morocco)
- P2595 The particularities of pulmonary tuberculosis (TB)-diabetes mellitus (DM) syntropy in a community with high prevalence for TB  
G. Apti, A. Trailescu (Constanta, Bucuresti, Romania)
- P2596 Aspects of relationship between alcoholism and tuberculosis  
S. Apetrei (Urziceni, Romania)
- P2597 Certain aspects of the association between tuberculosis and cancer  
M. Panescu, C. Vasilescu, M. Archip (Iasi, Romania)
- P2598 Tuberculosis after renal transplantation  
V. Pencheva, O. Georgiev, D. Petrova (Sofia, Bulgaria)
- P2599 Tuberculosis is common in ethnic minority patients with chronic kidney disease in United Kingdom, and there is a high level of drug resistance  
P. Palchaudhuri, A. Riding, P. Begum, M. Ostermann, H. Milburn (London, United Kingdom)
- P2600 Smoking is a risk factor for TB infection, but is it an additional mortality risk?  
N. Bogdanovic, B. Lazovic, B. Milenkovic (Belgrade, Republic of Serbia)
- P2601 What about asthma in tuberculosis patients  
H. Zaibi, L. Fekih, I. Akrouf, E. Tangour, H. Hassene, D. Greb, S. Fenniche, H. Ben Abdelghaffar, D. Belahbib, M. L. Megdiche (Ariana, Tunisia)
- P2602 A case of pulmonary tuberculosis combined with tuberculous gonitis in a 12-year-old immigrant patient with haemophilia A  
R. Bodnar, A. Subicz, T. Lowy, L. Kadar (Budapest, Torokbalint, Hungary)
- P2603 Pulmonary tuberculosis relapses: A report of 44 cases  
L. Nacef, O. Saighi (Blida, Algeria)
- P2604 Unusual forms of pulmonary tuberculosis  
N. Zaghba, N. Yassine, A. Ech-Cherrate, A. Bakhatar, A. Bahlaoui (Casablanca, Morocco)

MONDAY  
26

## MONDAY SEPTEMBER 26

- P2605 Paradox radiologic progression despite appropriate antituberculosis therapy  
U. Gonlugur, S. Kosar, A. Mirici (Canakkale, Turkey)
- P2606 Baseline and treatment completion chest radiographs in pulmonary and extra-pulmonary tuberculosis  
S. Bartington, S. Hopkins, C. Cash, J. Cleverley, I. Copley, M. Lipman (London, United Kingdom)
- P2607 Radiological features of pulmonary tuberculosis in patients with diabetes mellitus  
B. Paralija, H. Zutic (Sarajevo, Bosnia And Herzegovina)
- P2608 Latent tuberculosis infection (LTBI) treatment completion and complication in Leeds, UK  
R. Ahmed, M. Arif, D. Hopper, C. Mullarkey, S. Moffitt, J. Watson (Leeds, United Kingdom)

HALL 2-31

SESSION 278

12:50 - 14:40

**Thematic Poster Session: Epidemiology of multidrug-resistant and extensively drug-resistant tuberculosis**
**Chairs: I. Abubakar (London, United Kingdom), J. Cayla (Barcelona, Spain), V. Crudu (Chisinau, Republic of Moldova)**

- P2610 Multi-drug resistant and extensively-drug resistant tuberculosis in the region of Seixal: A 6 years revision  
M. Fradinho, C. Barroso, C. Cristovao, F. Nogueira (Lisbon, Seixal, Portugal)
- P2611 The results of drug resistance survey of MDR-strains on second line drugs obtains in national reference laboratory – “M.Nasta” Institute – Bucharest  
O. Moldovan, D. Homorodean, E. Ibraim, M. Bendorf, C. Popa (Bucharest, Romania)
- P2612 Epidemiological and microbiological characteristics of reported cases with multidrug-resistant tuberculosis in the Republic of Bulgaria for the period 2007-2009  
V. Milanov, M. Zamfirova, T. Varleva, E. Bachiyska, A. Koleva, A. Yaneva (Sofia, Gabrovo, Bulgaria)
- P2613 Multi-drug resistance tuberculosis (MDR-TB) in Federation of Bosnia and Herzegovina during ten years  
A. Ustamujic, H. Zutic, Z. Dizdarevic, V. Cukic, I. Sladic, J. Maglajlic, M. Osmic, J. Abazovic (Sarajevo, Bosnia And Herzegovina)
- P2614 First national survey results of mycobacterium tuberculosis drug resistance in Kosovo, 2007-2008  
X. Kurhasani, G. Mulliqi-Osmani, R. Mehmeti, B. Tigani, B. Beqiri, A. Kalaveshi, N. Ramadani, D. Cirillo, E. Borroni, G. B. Migliori (Prishtina, Albania)
- P2615 Drug resistant tuberculosis among Greek and immigrant patients in a pulmonary department in northern Greece  
E. Fouka, N. Aggelis, X. Parisi, D. Vlaikos, P. Stefanopoulou, S. Lambaki, N. Galanis (Thessaloniki, Greece)
- P2616 Drug resistance pattern of mycobacterium tuberculosis complex at the main reference tuberculosis centre in Greece, 2000-2010  
P. Zois, P. Sotiropoulou, A. Papavasileiou, K. Broupi, S. Katsafli, S. Karabela, K. Gourgoulanis, K. Konstantinou (Athens, Larissa, Greece)
- P2617 Multi drug resistant tuberculosis in a tertiary university hospital  
A. Khoury, O. Balash, L. Kayalli, A. Touma (Aleppo, Syrian Arab Republic)
- P2618 Multidrug resistant pulmonary TB: Characteristics of drug resistance profiles of MBT in Ukraine  
I. Liskina, S. Kuzovkova (Kiev, Ukraine)
- P2619 Secondary drug resistance during an intravenous intermittent chemotherapy in newly cases TB  
T. Petrenko, V. Krasnov (Novosibirsk, Russian Federation)
- P2620 Drug resistance among new TB cases and relapses  
P. Victor, R. Larisa, Y. Marina, K. Lev, E. Putova (Moscow, Russian Federation)
- P2621 Drug resistance in pulmonary TB patients: Analysis of dynamics  
L. Pankratova, E. Pereselentseva, L. Vlasova (Saratov, Russian Federation)
- P2622 To determine the acquired resistance of mycobacterium tuberculosis by culture to 1st line anti-tuberculous drugs in non responding smear positive patients who have taken category 1  
S. Baig, N. Rizvi, N. Saifullah (Karachi, Pakistan)
- P2623 Impact of drug resistance over sputum conversion in tubercular patients receiving re-treatment regimen  
P. P. Gupta, P. T. Yasir (Rohtak, India)
- P2624 Patterns of drug resistance at initiation of re-treatment across relapse, default and failure subcategories in previously treated tubercular patients  
P. P. Gupta, P. T. Yasir (Rohtak, India)
- P2625 Clinical characteristics and mortality patterns of MDRTB patients in India  
C. Sudheendra Ghosh, L. Jeyaseelan, B. Ronald Win, R. Kamala, K. R. Renu (Thiruvananthapuram, Vellore, India)
- P2626 Resistance pattern to WHO CAT IV regimen in patients suspected of drug resistance tuberculosis presenting to a specialist office practice in Mumbai  
P. Chaudhari, A. Kate, J. Leuppi, M. Tamm, P. Chhajed (Mumbai, NaviMumbai, India)
- P2627 Multidrug-resistant tuberculosis in a kidney recipient  
V. Pencheva, D. Petrova, O. Georgiev (Sofia, Bulgaria)
- P2628 Dynamics of production thyroid-stimulating hormone in patients with multiple-drug resistant tuberculosis (MDR-TB) on the background of prolonged chemotherapy  
T. Morozova, T. Salina (Saratov, Russian Federation)

HALL 2-32

SESSION 279

12:50 - 14:40

**Thematic Poster Session: Tuberculosis epidemiology and public health****Chairs: T. Vasankari (Turku, Finland), C. Mulder (The Hague, The Netherlands)**

- P2629 Evolution of tuberculosis in an area of Vizcaya  
S. Pedrero Tejada, B. Vilar Achabal, M. Alfonso Imizcoz, I. Lopez Mirones, L. M. Soria Riendas, N. Marina Malanda, I. Martinez Rienda, E. Ciruelos Ayuso, R. Zalacain Jorge, E. Urrea Zalbidegoitia (Barakaldo, Spain)
- P2630 Evolution of the incidence of tuberculosis in the III health area of the Principado of Asturias, Spain  
J. M. Garcia-Garcia, F. Alvarez-Navascues, M. Villanueva, H. Villar, J. J. Palacios, J. Allende, A. Sanchez-Antuña, M. Martinez-Muñiz, J. A. Gullon, A. Fernandez-Pantiga, J. M. Fernandez-Carreira, A. Fernandez-Quiroga, B. Gonzalez-Gonzalez (Aviles, Oviedo, Spain)
- P2631 Epidemiology of tuberculosis in the province of Siena  
S. Gianni, P. M. Olia (Siena, Italy)
- P2632 A 3 year (2007-2010) tuberculosis treatment analysis in Belfast City Hospital, Northern Ireland  
I. Masih, A. Breen, S. Richard, C. O'Kane (Belfast, United Kingdom)
- P2633 What patients account for the post-socialist increase in pulmonary tuberculosis?  
A. Altraja, P. Viiklepp, K. Kliiman, H. Sillastu, L. Pehme (Tartu, Tallinn, Estonia)
- P2634 Epidemiological investigation in TB diagnosis must be reconsidered  
M. Archip, M. Panescu, C. Vasilescu, M. Colea (Iasi, Romania)
- P2635 The development of tuberculosis in Bucharest in the last ten years  
E. Tabacu, E. Ibraim, C. Didilescu (Bucharest, Romania)
- P2636 Increasing adherence to TB treatment – Pilot intervention in two counties in Romania  
F. Furtunescu, V. Mihaescu, M. Stefan, H. Cocei, N. Cioran, E. Ibraim (Bucharest, Romania)
- P2637 The results of DOTS Plus project in Romania (2004-2010)  
R. D. Spataru, M. Andrei, M. Stefan, E. Ibraim (Bucharest, Romania)
- P2638 Assessing the risk of tuberculosis infection in a vulnerable population group (ethnicity rome) in a TB endemic population  
G. Nini, A. Socaci, E. Borgazi, M. C. Nini (Arad, Timisoara, Constanta, Romania)
- P2639 Risk factors for anti-tuberculosis treatment failure  
E. Lesnic, V. Zlepca (Chisinau, Republic of Moldova)
- P2641 Tuberculosis and gender: Epidemiological trends since 1957 in Poland  
M. Korzeniewska Kosela (Warszawa, ul. Plocka 26, Poland)
- P2642 Tuberculosis treatment completion in migrants, St.-Petersburg, Russian Federation  
I. Golubeva, V. Zhuravlev, N. Skrynnik (Saint-Petersburg, Russian Federation)
- P2643 Incidence of tuberculosis and primary drug resistance rates in young Turkish soldiers  
D. Tas, C. Tasci, E. Demirer, O. Sezer, O. Okutan, Z. Kartaloglu (Istanbul, Ankara, Turkey)
- P2644 Drug resistance pattern of directly observed treatment shortcourse (DOTS) category-II relapse patients  
N. Jain, M. Sharma, N. Jain, N. Joshi, R. Aurangabadwalla, A. Jha (Jaipur, India)
- P2645 To study outcome of directly observed treatment shortcourse (DOTS) category I and category II relapses when put on re-treatment regimen (Cat-II DOTS)  
N. Jain, N. Jain, M. Sharma, R. Aurangabadwalla, N. Joshi, J. Akanksha (Jaipur, India)
- P2646 An analysis of mortality among patients with tuberculosis (TB) in Sri Lanka  
D. Madegedara, P. Wijerathne, L. Monaragala, D. Yasaratne, N. Dissanayake (Kandy, Sri Lanka)
- P2647 A tuberculosis-screening program among HIV-infected patients  
F. Viveiros, M. Mota, L. Matos, A. Carvalho, R. Duarte (Vila Nova de Gaia, Guarda, Porto, Portugal)
- P2648 Unusual association of tuberculosis with schistosomiasis and tuberculosis with sporotrichosis  
R. Quagliato, M. Leme, P. Tonidandel, W. Dias, M. Zanollo, G. Yonezawa, A. Barbeiro, L. Zambom (Campinas, Brazil)

HALL 2-33

SESSION 280

12:50 - 14:40

**Thematic Poster Session: Risk assessment for tuberculosis****Chairs: I. Latorre (Badalona, Spain), M. Eisenhut (Luton, United Kingdom), M. Aabye (Hvidovre, Denmark)**

- P2649 Within-subject variability of tuberculosis immune responses in health care workers  
F. C. Ringshausen, H. Knoop, S. Schlösser, G. Schultze-Werninghaus, G. Rohde, A. Nienhaus (Hamburg, Bochum, Germany; Maastricht, The Netherlands)
- P2650 Conversion and reversion rates in serial examination in German healthcare worker with the interferon-gamma release assay  
A. Schablon, R. Diel, F. C. Ringshausen, A. Nienhaus (Hamburg, Hannover, Germany)
- P2651 Specificity and negative predictive value of the QuantiFERON-TB®-Gold In Tube testing on trainees in healthcare settings  
A. Schablon, G. Diner, U. Anske, A. Nienhaus (Hamburg, Berlin, Germany)

MONDAY  
26

## MONDAY SEPTEMBER 26

- P2652 Prevalence of LTBI using IGRA and TST in a cohort of health professional trainees from India  
D. J. Christopher, P. James, J. Sarojini Michael, D. Shankar, A. Zwerling, M. Pai (Vellore, India; Montreal, Canada)
- P2653 Evaluation of latent tuberculosis infection in health care workers by QuantiFERON-TB Gold test and tuberculin skin test  
D. Yenibertiz, D. Kanmaz, B. Yilmaz, F. Atabey, E. Tuncay (Istanbul, Turkey)
- P2654 Serial testing using IGRAs in a cohort of Indian nursing students  
D. J. Christopher, P. James, J. Sarojini Michael, A. Zwerling, M. Pai (Vellore, India; Montreal, Canada)
- P2655 Tuberculosis screening program using the QuantiFERON-TB Gold test and chest computed tomography for healthcare workers accidentally exposed to patients with tuberculosis  
T. Hirama, K. Hagiwara, M. Kanazawa (Moroyama, Japan)
- P2656 The additional diagnostic value of interferon gamma release assay to the tuberculin skin test in Greek health care workers (a preliminary study)  
A. Charisis, A. Konstantinidis, C. Gartzonika, D. Archimandriti, A. Gogali, C. Katsanos, A. Kostoulas, S. Katsenos, G. Daskalopoulos, S. Leveidiotou-Stefanou, A. Mavridis, S. Constantopoulos (Ioannina, Greece)
- P2657 Concordance between IGRA and TST in a cohort of health professional trainees from India  
D. J. Christopher, P. James, J. Sarojini Michael, A. Zwerling, M. Pai (Vellore, India; Montreal, Canada)
- P2658 IGRA testing correlation with clinical and laboratory parameters in patients with tuberculosis  
J. Kotrbova, M. Vasakova, J. Homolka, E. Kopecka, J. Skibova (Prague, Czech Republic)
- P2659 Useful of Quantiferon G in managing solitary pulmonary nodule of less than 3 cm  
S. Saenghirunvattana, K. Saenghirunvattana, P. Masakul, C. Vinitwatanakhun (Bangkok, Thailand)
- P2660 T spot TB – Changing trends and resource implications for trusts  
M. Patel, A. Morris, B. Prathibha (Ashford, United Kingdom)
- P2661 Clinical utility of the interferon-gamma for the diagnosis of active pulmonary tuberculosis  
S. Kasikovic Lecic, S. Pavlovic, V. Kuruc, M. Ilic, D. Kukavica (Sremska Kamenica, Republic of Serbia)
- P2662 Unfavorable factors associated with false negative results of interferon-gamma release assay for tuberculosis  
N. T. L. Hang, L. T. Lien, N. Kobayashi, T. Shimbo, S. Sakurada, P. H. Thuong, L. T. Hong, D. B. Tam, M. Hijikata, I. Matsushita, N. V. Hung, K. Higuchi, N. Harada, N. Keicho (Hanoi, Viet Nam; Tokyo, Japan)
- P2663 The influence of a high negative control on the interpretation of QuantiFERON Gold in Tube (QFN) results  
W. Ricketts, G. Bothamley (London, United Kingdom)
- P2664 Clinical history and IGRA is unreliable in the diagnosis of tuberculosis  
W. Ricketts, G. Bothamley (London, United Kingdom)
- P2665 Specificity of IRGAs in Japan  
K. Higuchi, Y. Sekiya, H. Igari, A. Watanabe, N. Harada (Kiyose, Chiba-shi, Japan)
- P2666 Do kinetics of interferon-gamma responses predict TB relapse?  
C. Chee, K. W. KhinMar, S. H. Gan, T. Barkham, Y. T. Wang (Singapore, Singapore)
- P2667 Necessity of re-centrifugation of QuantiFERON®-TB Gold In-Tube samples after plasma harvest  
N. Harada, K. Higuchi, Y. Sekiya (Kiyose, Japan)
- P2668 Accuracy of IFN- $\gamma$  and IP-10 detection for diagnosis of tuberculosis in children  
I. Latorre, J. Diez, I. Mialdea, N. Altet, C. Prat, N. Diez, A. Escribano, M. Ruhwald, V. Ausina, J. Dominguez (Badalona, Valencia, Barcelona, Bellaterra, Spain; Copenhagen, Denmark)

HALL 2-34

SESSION 281

12:50 - 14:40

## Thematic Poster Session: Extrapulmonary tuberculosis and surgical interventions

**Chairs:** F. Eyunboglu (Ankara, Turkey), A. Skrahina (Minsk Region, Republic of Belarus), T. Mihaescu (Iasi, Romania)

- P2669 Serum and pleural fluid cytokines in pleural tuberculosis with and without lung parenchyma involvement  
M. Seiscento, F. Vargas, R. Sales, L. Teixeira, J. Puka, M. Acencio, L. Antonangelo (São Paulo, Brazil)
- P2670 The use of ADA liquid level in diagnosis of tuberculous pleurisy in countries with low incidence of tuberculosis  
P. Kapiszyz, D. Argjiri, A. Aliko, J. Beli, Y. Vakefliu, R. Kore, E. Shehu, R. Hasa, H. Tafa (Tirana, Albania)
- P2671 Evaluation of real time polymerase chain reaction in rapid diagnosis of exudative tubercular effusions  
B. Menon, C. Kaur (New Delhi, India)
- P2672 Adult thoracic empyema: A comparative analysis of tuberculous and nontuberculous etiology in 75 patients  
S. Kundu, S. Mitra, S. Mukherjee, S. Das (Calcutta, West Midnapore, India)
- P2673 High yield of liquid mycobacterial culture in pleural fluid and tissue  
F. von Groote-Bidlingmaier, K. Chung, C. Rautenbach, M. Bernasconi, C. Koegelenberg, E. Wasserman, C. Bolliger, A. Diacon (Cape Town, South Africa)
- P2674 Pleural tuberculosis: A study of 46 cases  
B. Hamdi, C. Aichaouia, S. Fereh, S. Mhamdi, Z. Moatamri, S. Daboussi, G. Laaribi, M. Khadhraoui, R. Cheikh (Tunis, Tunisia)
- P2675 Features of diagnostics for exudative pleurisy of tuberculosis etiology  
S. Massavirov, K. Mukhamedov, A. Muzrabekov, S. Kostromtsov, F. Ismailova, E. Khudayberdieva (Tashkent, Uzbekistan)



- P2676 Advantage of chest tube drainage in tuberculous pleurisy without active pulmonary tuberculosis  
M. J. Na, J. H. Kim, Y. M. Lee, S. J. Kwon, J. W. Son, E. Choi (Daejeon, Republic of Korea)
- P2677 Pleural tuberculosis: A retrospective study in the tuberculous control unit of Blida between 2005 and 2009  
L. Nacef, O. Saighi (Blida, Algeria)
- P2678 Specific pulmonary lesion in patients with tubercular spondylitis (TS)  
V. Zhuravlev, G. Vasilieva, P. Gavrilov (Saint-Petersburg, Russian Federation)
- P2679 Practicing empirical anti-tuberculosis treatment (ATT) in suspected spinal tuberculosis (STB): Follow up of 33 cases from Sri Lanka, a limited resource setting with an intermediate disease burden  
D. Yasaratne, D. Madegedara, K. Weerawardhana, P. Wijerathne, K. Nishantha, S. Nakandala, N. Dissanayake, C. Wirasinghe (Kandy, Sri Lanka)
- P2680 Tuberculous spondylitis as a mirror of a severe epidemic situation  
E. Kulchavenya, E. Koveshnikova (Novosibirsk, Russian Federation)
- P2681 Dysfunction of external respiration in patients with spinal tuberculosis  
Z. Nazirova, A. Kuziev (Tashkent, Uzbekistan)
- P2682 Tuberculous mycotic aneurysm of aorta: A rare complication  
P. Rekha, P. Sukumaran, T. K. Jayakumar, K. Venugopal (Kottayam, India)
- P2683 Tuberculosis in residual pleural cavity after segmental pulmonary resections and its surgical treatment  
T. Kariev, S. Abulkasimov, S. Rakhmanov (Tashkent, Uzbekistan)
- P2684 Asymptomatic oesophageal and bony involvement in an HIV-negative female with pulmonary TB  
R. Ahmed, S. Allen, P. Kanthapillai (Luton, United Kingdom)
- P2685 Surgical treatment of first found pulmonary tuberculosis at ineffectiveness of DOTS therapy  
T. Kariev, S. Abulkasimov, A. Irgashev (Tashkent, Uzbekistan)
- P2686 Method of treatment of destructive tuberculosis of single lung with extensively drug resistant mycobacteria tuberculosis  
I. Tabanakova, A. Elkin, M. Kobak, N. Yakushenko (Saint-Petersburg, Russian Federation)
- P2687 Artificial therapeutic pneumothorax induced by video assisted thoracoscopic surgery – Surgical treatment option in the modern management of pulmonary tuberculosis – Case presentation  
O. Danaila, C. Paleru, C. Bolca, A. Istrate, C. Popa, G. Cadar, I. Cordos (Bucharest, Romania)
- P2688 A case of breast tuberculosis in developed country with low incidence of tuberculosis  
V. Polcova, M. Vasakova, E. Kopecka, J. Homolka (Prague, Czech Republic)

HALL 2-35

SESSION 282

12:50 - 14:40

**Thematic Poster Session: Pulmonary and extrapulmonary tuberculosis****Chairs: M. Koslow (Tel Aviv, Israel), J. Nemeth (Zurich, Switzerland)**

- P2689 Unusual locations of tuberculosis: Three cases report  
H. Gharsalli, S. Azzabi, M. A. Baccar, J. ElGoul, B. Ourari-Dhahri, J. Ben Ammar, L. El Gharbi, H. Aouina, H. Bouacha (Tunis, Tunisia)
- P2690 Rare localization of extra pulmonary tuberculosis  
J. Ben Amar, B. Ourari, L. El Gharbi, S. Azzabi, M. A. Baccar, H. Aouina, H. Bouacha (Tunis, Tunisia)
- P2691 Current trends of extrapulmonary tuberculosis in Siberia  
E. Kulchavenya (Novosibirsk, Russian Federation)
- P2692 Prostate biopsy for diagnostic of prostate tuberculosis  
D. Kholto bin, E. Kulchavenya, E. Brizhatyuk (Novosibirsk, Russian Federation)
- P2693 Masks of kidney tuberculosis  
D. Kholto bin, E. Kulchavenya (Novosibirsk, Russian Federation)
- P2694 The reasons for late diagnosis of nephrotuberculosis  
D. Kholto bin, E. Kulchavenya (Novosibirsk, Russian Federation)
- P2695 Kidney tuberculosis in last century and now – Is it the same disease?  
D. Kholto bin, E. Kulchavenya (Novosibirsk, Russian Federation)
- P2696 Diagnosis of tuberculosis lymph node disease (TBLN): Problems with mediastinal disease  
R. Hackett, G. Bothamley (London, United Kingdom)
- P2697 Mycobacterial characteristics of tuberculous lymphadenitis in a tertiary care hospital in India  
M. Kale, P. Khatavkar, M. Satpute, N. Telang, S. Wagh (Pune, India)
- P2698 A prospective observational study to determine the adequacy of 6 months antitubercular therapy in tubercular mediastinal lymphadenopathy  
A. Jha, N. Jain, R. Aurangabadwalla, N. Jain, M. Thakkar, N. Joshi (Jaipur, India)
- P2699 Comparison of treatment of TB lymphadenitis with daily vs. intermittent chemotherapy  
T. Sahasrabudhe, S. Garg (Pune, India)
- P2700 Demographic, clinical, and radiographic assessment of symptomatic, smear-negative pulmonary tuberculosis in a public-private mixed DOTS setting in Iloilo City  
R. Lee, M. Ferrer, L. Sirilan, R. Guzman-Trivilegio, R. Cabana, A. L. Ponje, E. M. Divinagracia, E. Solis (Iloilo City, Philippines)

## MONDAY SEPTEMBER 26

- P2701 Post tubercular sequels as a important non-smoking risk factor for developing COPD  
H. Kumar, J. K. Samaria (Varanasi, India)
- P2702 Obstructive lung disease in patients with treated pulmonary tuberculosis  
M. Chushkin, B. Maliev, S. Yartsev, S. Smerdin (Moscow, Russian Federation)
- P2703 Airflow limitation due to COPD despite tuberculosis sequelae  
N. Ben Salem, N. Chaouch, M. Loukil, M. Zarrouk, S. Cheikh Rouhou, H. Racil, K. Ben Miled, A. Chabbou (Ariana, Tunisia)
- P2704 Structure of extrapulmonary tuberculosis forms in Romania among 2007–2009  
C. Marica, C. Didilescu, M. Tanasescu, M. Popescu-Hagen, N. Cioran (Bucharest, Craiova, Romania)
- P2705 Pulmonary involvement in extrapulmonary tuberculosis patients  
K. B. Gupta, M. Jose, U. Chaudhary, S. Magu (Rohatak, India)
- P2706 Pulmonary involvement in pleural tuberculosis: How often does it mean disease activity?  
R. Sales, F. Vargas, L. Teixeira, M. Seiscento, S. Bombarda, S. Alves, L. Antonangelo (São Paulo, Brazil)
- P2707 Detecting pulmonary involvement in extra-pulmonary tuberculosis using chest radiographs (CXR) and sputum sampling: What happens in practice?  
S. Bartington, M. Lipman, J. Cleverley, C. Cash, I. Cropley, S. Hopkins (London, United Kingdom)
- P2708 Assessment of the prevalence of pulmonary involvement in cases with extrapulmonary tuberculosis  
M. Zidan, H. Shaarawy (Alexandria, Egypt)

HALL 2-36

SESSION 283

12:50 - 14:40

## Thematic Poster Session: Clinical challenges in tuberculosis

Chairs: J-P. Janssens (Geneva, Switzerland), S. Winkler (Vienna, Austria)

- P2709 Late-breaking abstract: Atypical chest X-ray manifestations in pulmonary tuberculosis – A case series  
M. Vishnu Sharma, Viswambhar (Mangalore, India)
- P2710 Late-breaking abstract: Tumor marker pattern in benign pleural effusion investigation. A case report of increased pleural CA 125  
M. Kougias, G. Boulbasakos, E. Balis, V. Lazarou, G. Tatsis (Athens, Greece)
- P2711 Late-breaking abstract: Cough aerosol: Significant basis to design innovative control strategies in tuberculosis transmission in smokers  
J. G. Zayas, M. C. Chiang, E. Wong, F. MacDonald, M. King (Edmonton, Canada)
- P2712 Late-breaking abstract: A case of miliary TB presenting with large pneumothorax  
A. Hussain (Warwick, United Kingdom)
- P2713 Late-breaking abstract: Contact investigation in management of newborns after exposure to Mycobacterium tuberculosis from a health care worker  
M. Aldeco, M. Praprotnik, M. Mramor, D. Lepej, M. Zolnir-Dovc, M. Kosnik, U. Krivec (Ljubljana, Golnik, Slovenia)
- P2714 Tuberculosis in hemodialysis patients  
B. Dhahri, M. Hdiji, J. Ben Ammar, S. Azzabi, W. Feki, J. EL Ghoul, M. A. Baccar, H. Aouina, L. El Gharbi, H. Bouacha (Tunis, Tunisia)
- P2715 C-reactive protein in differentiation between tuberculous and malignant pleural effusions  
M. Sedky, I. Radwan, M. Mohamed (Cairo, Egypt)
- P2716 The first case of mycobacterium shimoidei infection in the UK  
N. Biswas, T. Brown, J. Dakin (Portsmouth, United Kingdom)
- P2717 The incidence of adverse reactions in anti-tuberculosis chemotherapy in S-W Romania  
E. D. Popovici, V. Tudorache, L. M. Baditoiu, M. Licker, M. G. Popovici, I. Epure, O. Florea, D. V. Tremurici (Timisoara, Romania)
- P2718 Pulmonary diseases due to non-tuberculous mycobacteria in TB referral clinical center  
L. Guntupova, S. Borisov, I. Solov'eva, M. Makarova, E. Khachaturiants (Moscow, Russian Federation)
- P2719 Screening and monitoring of tuberculosis in patients on tumor necrosis factor antagonist therapy  
S. Borisov, G. Lukina, L. Guntupova, L. Slogotskaya, Y. Kochetkov (Moscow, Russian Federation)
- P2720 Outcome results of antituberculous treatment in latent or manifest tuberculosis patients featuring granulomatous uveitis  
T. Cagatay, Z. Kilicaslan, A. Erer, A. Y. Tas, P. Cagatay, I. T. Tutkun (Istanbul, Turkey)
- P2721 Pulmonary mycobacterial infection in allogeneic hematopoietic stem cell transplanted (HSCT) patients: A study of 7 cases  
E. Catherinot, E. Rivaud, P. Honderlick, N. Dhedin, F. Suarez, C. Tcherakian, O. Lortholary, P. Cahen, L. J. Couderc (Suresnes, Paris, France)
- P2722 Spinal tuberculosis in South London Hospital – A 5 year review of our experience  
D. S. Rao, R. Hopkins, B. L. K. Wong, E. Karampini, B. Asuquo, T. C. Stokes (Woolwich, United Kingdom)
- P2723 Immunological status of TB/HIV dual infection patients in Latvia in year 2009  
E. Livcane, E. Fridrihsone (Riga, Latvia)

- P2724 New biomarkers for LTBI in IGRAs supernatants  
M. Shibasaki, M. Matsushima, Y. Kitagawa, T. Kawabe (Oobu, Nagoya, Japan)
- P2725 Mouse model of pulmonary disease after aerosol infection with *Mycobacterium xenopi*  
C. Andrejak, S. Tyagi, E. Nuernberger, J. Grosset (Baltimore, United States of America)

## HALL 2-37

## SESSION 284

12:50 - 14:40

## Thematic Poster Session: Epidemiology of lung cancer and screening

**Chairs:** S. Spiro (Middlesex, United Kingdom), R. M. Huber (Munich, Germany), B. Grigoriu (Iasi, Romania)

- P2726 Patients with a lung cancer are changed: About a French monocentric cohort between 1990 and 2010  
F. Vaylet, J. Margery, I. N'Gampolo, W. Gaspard, A. Mairovitz, H. Le Floch, F. Riviere, F. Pons, J. P. Arigon, R. Jancovici, P. Saint Blancard, C. Marotel, P. L'Her (Clamart, France)
- P2727 Increased survival in lung cancer patients with diabetes mellitus: A large cohort study  
P. Hatlen, B. H. Grønberg, A. Langhammer, S. M. Carlsen, T. Amundsen (Trondheim, Verdal, Norway)
- P2728 Lung cancer in patients with COPD: Incidence and predicting factors  
J. de Torres, J. Marin, C. Casanova, C. Cote, S. Carrizo, E. Cordoba Lanus, R. Baz Davila, J. Zulueta, A. Aguirre Jaime, M. Saetta, M. Cosio, B. Celli (Pamplona, Tenerife, Zaragoza, Spain; New York, Boston, United States of America; Padova, Italy; Montreal, Canada)
- P2729 COPD prevalence in lung cancer patients – Is COPD a risk factor for lung cancer?  
D. Tofolean, L. Mazilu, T. Adam, A. I. Suceveanu, P. Iorga, I. T. Tofolean (Constanta, Bucharest, Romania)
- P2730 Peculiarities of lung cancer in patients with COPD  
O. Lukina, A. Speranskaya, A. Hristolubov, A. Litvinov, V. Trofimiov (Saint-Petersburg, Russian Federation)
- P2731 Epidemiological and histologic features of lung cancer in Montenegro  
M. Medenica, N. Perosevic (Niksic, Podgorica, Republic of Serbia)
- P2732 Occupational exposure to carcinogens and lung cancer: Impact of a dedicated professional disease consultation in a Belgian oncologic centre  
A. P. Meert, I. Morelle, T. Berghmans, I. C. S. Toth, J. P. Sculier (Brussels, Belgium)
- P2733 The association between residential radon concentration and lung cancer  
D. A. Todea, L. E. Rosca, C. Cosma, T. Dicu (Cluj Napoca, Romania)
- P2734 Is female gender a protective factor for NSCLC patients? A follow up study of 20 years of 478 patients  
J. Chatkin, N. Scaglia, J. Figueiredo-Pinto (Porto Alegre, Brazil)
- P2735 A retrospective study of lung cancer in young patients  
P. Rajagopalan, D. G. Price, S. Sasikumar, R. Baghai Ravary, N. R. Goldsack, B. Pereira (Canterbury, United Kingdom)
- P2736 KRAS mutations in non-small cell lung cancer (NSCLC) – Experiences by routine molecular testing in a German lung cancer centre  
C. Boch, J. Kollmeier, D. Misch, A. Roth, T. Blum, W. Gruening, N. Schoenfeld, T. Mairinger, T. T. Bauer (Berlin, Germany)
- P2737 Characterization of patients with non-small cell lung cancer (NSCLC) relative to its EGFR mutational status  
A. Castro, A. Antunes, A. Barroso, S. Conde, S. Neves, B. Parente (Vila Nova de Gaia, Portugal)
- P2738 Analysis of EGFR-mutations in a diverse urban patient population  
A. Tufman, K. Wagner, A. Jung, R. M. Huber (Munich, Germany)
- P2740 In lung cancer screening by CT incidental findings are frequent and often of clinical importance  
Z. Saghir, A. Dirksen, J. H. Pedersen (Hellerup, Copenhagen, Copenhagen, Denmark)
- P2741 Evaluation of the effect of sampling of spontaneous sputum over a prolonged period on the sensitivity for lung cancer  
J. Hubers, D. Heideman, J. Herder, S. Burgers, P. Sterk, P. Kunst, H. Smit, P. Postmus, S. Duin, P. Snijders, G. Meijer, E. Smit, E. Thunnissen (Amsterdam, Nieuwegein, The Netherlands)
- P2742 Molecular test supporting early lung cancer detection project based on pilot Pomeranian lung cancer screening program  
A. Szymanowska-Narloch, R. Dziadziuszko, M. Jelitto-Gorska, W. Rzyman (Gdansk, Poland)
- P2743 Current screening programs for lung cancer – Are inclusion criteria too rigorous to identify asymptomatic patients?  
A. Bugge, A. Naalsund, M. B. Lund (Oslo, Norway)
- P2744 A study of design an original questionnaire for evaluating risks of lung cancer  
B. Chen, D. Wang, W. Li, D. Liu (Chengdu, China)
- P2745 Effects of the self-evaluation scoring questionnaire and chest digital radiography in lung cancer screening: A three-year follow-up study  
B. Chen, Y. Wang, D. Liu, W. Li (Chengdu, China)

## MONDAY SEPTEMBER 26

HALL 2-38

SESSION 285

12:50 - 14:40

**Thematic Poster Session: Imaging, functional evaluation and staging for lung cancer patients****Chairs: A. Rozman (Golnik, Slovenia), T. Strand (Oslo, Norway), N. Dickgreber (Sarstedt, Germany)**

- P2746 Is an EGFR mutation associated with lower glucose metabolism in the FDG-PET?  
G. Förster, J. Kollmeier, M. Raible, T. Köcer, S. Griff, D. Kaiser, T. Bauer (Berlin, Germany)
- P2747 An analysis of EGFR expression and tumour imaging in non-small cell carcinomas of lung  
V. Thanasekaraan, P. Duvuru, S. Rao, S. Mohamed, S. J. Sundar (Chennai, India)
- P2748 Integrated <sup>18</sup>F – FDG PET dynamic contrast enhanced CT to phenotype non-small cell lung cancer  
T. Win, M. Shastry, K. Miles, S. Janes, R. Endozo, M. Hill, P. Ell, A. Groves (Stevenage, London, Brighton, United Kingdom)
- P2749 FDG-PET SUVmax is an independent prognostic indicator in patients with non-small cell lung cancer  
L. J. Smith, N. Navani, P. Bassett, I. Kayani, A. Groves, S. Janes (London, United Kingdom)
- P2750 Late-breaking abstract: Is primary tumour standardized uptake value (SUV) an independent prognostic factor for non small cell lung cancer (NSCLC)? A meta-analysis based on individual data  
M. Paesmans, C. Y. O. Wong, E. F. Patz, R. Komaki, S. Eschmann, R. Govindan, J. Vansteenkiste, A. P. Meert, W. de Jong, K. Higashi, G. Borst, A. Van Baardwijk, L. Ameye, J. J. Lafitte, T. Berghmans, C. Garcia, P. Flamen, R. Rami Porta, J. P. Sculier (Brussels, Leuven, Belgium; Royal Oak, Durham, Houston, St-Louis, United States of America; Tübingen, Germany; Groningen, Amsterdam, Maastricht, The Netherlands; Ishikawa, Japan; Lille, France; Barcelona, Spain)
- P2751 Is our preoperative TNM staging reliable?  
M. Inchausti, L. Garcia, M. Alfonso, R. Diez, A. Urrutia, A. Sagarna, E. Perez, U. Jimenez, P. Ansola (Barakaldo, Spain)
- P2752 Prevalence of silent brain metastasis (BM) in the initial staging of non-small cell lung carcinoma (NSCLC)  
L. M. PariEspinoza, D. Huertas Almela, S. Padrones Sanchez, S. Aso González, A. Rosell Gratacós, J. I. Martínez Ballarín, J. Dorca Sargatal, N. González Calzada (Barcelona, Spain)
- P2753 Assessment of physical functioning in surgical candidates with non-small cell lung cancer: Preliminary comparison of performance status to symptom-limited cardiopulmonary exercise testing  
M. A. Roman, N. D. Eves, L. W. Jones (Calgary, Kelowna, Canada; Durham, United States of America)
- P2754 Comparison of predictive respiratory function parameters of lung cancer patients having COPD diagnosis with postoperative values and relation with mortality and morbidity  
S. Altun, M. Kahraman, D. Kanmaz, E. Yentürk, F. Atabey, C. Kocatürk, E. Tuncay, M. A. Bedirhan, Y. Toraman (Trabzon, Istanbul, Turkey)
- P2755 Effect of adjuvant chemotherapy on lung function in early stage NSCLC  
M. Kreuter, J. Vansteenkiste, I. Zuna, F. Herth, J. Fischer, N. Reinmuth, F. Griesinger, M. Thomas (Heidelberg, Wiesbaden, Loewenstein, Oldenburg, Germany; Leuven, Belgium)
- P2756 Radiofrequency ablation of lung neoplasms in patients being no candidates for surgery. The impact of the intervention on the pulmonary function  
T. Schneider, M. Puderbach, A. Bischof, J. Kunz, H. Dienemann, H. Hoffmann, F. J. F. Herth, C. P. Heussel (Heidelberg, Germany)
- P2757 Is radiologic evidence of interstitial infiltrate enough to predict FEV1 and DLCO disparity in lung cancer patients?  
F. Fernandes, G. Prado, J. Puka, S. João Marcos, A. Albuquerque, M. Araujo, P. Chaves Sampaio, M. Suesada, T. Takagaki (São Paulo, Brazil)
- P2758 Lung function in lung cancer – Room for improvement?  
M. Wing, D. Powrie (Southend on Sea, United Kingdom)
- P2759 Lung cancer size and thoracic lymph nodes metastatic involvement: A correlation  
V. Kosjerina Ostric, Z. Kosjerina, G. Djenadic (Sremska Kamenica, Sabac, Republic of Serbia)
- P2760 FNA of palpable supraclavicular lymph nodes in lung cancer: Comparison between palpation and ultrasound  
D. Spyrtatos, D. Chloros, A. Mandrali, G. Spyropoulos, C. Gioka, L. Sichletidis (Thessaloniki, Greece)
- P2761 Is mediastinoscopy necessary in patients with negative EBUS-TBNA – A challenge to the ESTS Guidelines for staging of lung cancer  
M. Krasnik, P. Vilmann, F. Herth (Copenhagen, Hellerup, Denmark; Heidelberg, Germany)
- P2762 CT guided biopsy: Predictors of outcome and complication rate  
R. Sarkar, A. Baluwala, J. Jamieson-Young, A. Wight, E. Partridge, M. Babores (Macclesfield, United Kingdom)
- P2763 The frequency and significance of radiologically detected indeterminate pulmonary nodules in patients with colorectal cancer  
Y. Varol, U. Varol, B. Karaca, R. Uslu, R. Savas (Izmir, Turkey)

HALL 2-39

SESSION 286

12:50 - 14:40

**Thematic Poster Session: Palliation and morbidity in lung cancer patients****Chairs: M. Paesmans (Brussels, Belgium), F. Gamarra (Munich, Germany)**

- P2764 Sleep quality, quality of life and their correlative factors in lung cancer patients  
Y. Zhou, Y. Li, W. Huang, X. Cai, Q. Zeng, L. Huang (Guangzhou, China)
- P2765 Preoperative anxiety can affect the quality of life and health outcome of the patients that undergo thoracic surgery  
M. Anagnostopoulou, I. Vamvakaris, G. Vogiatzis, C. Sykaras, A. Maria, I. Gkiozos, A. Charpidou, K. Syrigos (Athens, Greece)
- P2766 Religiosity and depression of patients with lung cancer  
S. Kukulj, B. Aukst-Margetic (Zagreb, Croatia)
- P2767 Potential role of antidepressants as part of anticancer therapy  
D. Jovanovic, R. Stevic, S. Popevic, M. Velinovic, N. Samardzic, D. Maric (Belgrade, Republic of Serbia)
- P2768 Lung cancer patient advocacy  
P. Shankpal (Dhule, India)
- P2769 Frequency of thromboembolic events in patients with lung cancer at the time of diagnosis and in the course of disease  
M. Samulowski, C. Crolow, T. Blum, J. Kollmeier, W. Grüning, N. Schönfeld, R. C. Bittner, T. T. Bauer (Berlin, Germany)
- P2770 Lung cancer: Observations in specific patient group  
P. Shankpal (Dhule, India)
- P2771 Study of the lung cancer patients on hemodialysis (HD) in Japan  
R. Matsunuma, Y. Ohkuni, A. Komatsu, K. Nakashima, N. Asai, H. Makino, N. Kaneko (Kamogawa-city, Japan)
- P2772 Antibiotic prophylaxis in chemotherapy-induced neutropenia in lung cancer patients  
V. Kouranos, A. Vassias, G. Dimopoulos, K. Syrigos (Athens, Greece)
- P2773 Hematological toxicity associated with gemcitabine/cisplatin in elderly non-small cell lung cancer patients  
D. Szadanic-Velikic, N. Secen, D. Bursac, B. Mendebaba, A. Tepavac, G. Popovic, Z. Potic (Novi Sad, Sremska Kamenica, Republic of Serbia)
- P2774 A study comparing the efficacy, quality of life and toxicity of cisplatin-etoposide to carboplatin-paclitaxel in advanced or metastatic non-small cell lung cancer in the Indian scenario  
R. Aurangabadwalla, R. K. Jenaw, N. K. Jain, A. Jha, N. Jain, N. Joshi (Jaipur, India)
- P2775 Achieving better therapeutic results by education and telephone counseling for lung cancer patients undergoing scheduled chemotherapy regimens  
S. Karagiannis, V. Kouranos, E. G. Tsaroucha, M. Palavra, S. Spyropoulou, O. Anagnostopoulou (Athens, Greece)
- P2776 Can exhaled nitric oxide (FeNO) predict radiotherapy-induced lung toxicity in lung cancer patients?  
I. Enache, G. Noel, M. Oswald-Mammosser, M. Y. Jeung, E. Urban-Kraemer, C. Pisteu, E. Quoix, A. Charloux (Strasbourg, France)
- P2777 Cetuximab maintenance therapy – How long should we proceed? A case report  
S. Rüdiger, C. Kropf, G. Schmid-Bindert, T. Wibmer, M. Lanzinger, K. Stoiber, J. Blanta, W. Rottbauer, C. Schumann (Ulm, Mannheim, Germany)
- P2778 Clinical predictors for long-term benefit of cetuximab maintenance therapy – Single center subanalysis of the GEMTAX IV trial  
S. Rüdiger, C. Kropf, G. Schmid-Bindert, T. Wibmer, M. Lanzinger, K. Stoiber, J. Blanta, W. Rottbauer, C. Schumann (Ulm, Mannheim, Germany)
- P2779 Clinicopathologic characteristics of primary bronchial cancer metastasizing to the brain  
E. Podmaniczky, K. Fabian, G. Losonczy, J. Moldvay (Budapest, Hungary)
- P2780 Survival of lung cancer patients with bone metastases  
E. Budisin, N. Budisin, M. Potic, O. Budisin, D. Vuckovic (Sremska Kamenica, Novi Sad, Republic of Serbia)
- P2781 Pulmonary carcinoid tumor with multiple bone metastasis: A case report  
O. Okutan, O. Ayten, E. Demirel, Z. Kartaloglu, N. Ugan (Istanbul, Turkey)
- P2782 Complete regression of eyeball metastasis secondary to non-small-cell lung cancer with intravitreal cisplatin and vinorelbine therapy  
M. Kostrzewska, H. Batura-Gabryel, M. Nowak-Gabryel (Poznan, Poland)

HALL 2-40

SESSION 287

12:50 - 14:40

**Thematic Poster Session: Biomarkers and other new methods for lung cancer****Chairs: R. Mroz (Bialystok, Poland), B. Schmidt (Halle, Germany)**

- P2783 An evaluation of the potential for inhaled xenobiotics to develop cancer in the lung using a 3D *in vitro* model of the human epithelial airway-wall  
M. Clift, D. Studer, P. Wick, T. Geiser, P. Gehr, R. Schins, B. Rothen-Rutishauser (Bern, St. Gallen, Switzerland; Duesseldorf, Germany)

MONDAY  
26

## MONDAY SEPTEMBER 26

- P2784 Nitrosogluthathione reductase inhibition in the airway epithelium may contribute to lung cancer risk  
N. Marozkina, D. Jones, S. Yemen, B. Gaston (Charlottesville, United States of America)
- P2785 COPD as an independent risk factor for lung cancer in patients with bronchial squamous dysplasia  
A. Mohamed, K. Shibuya, I. Yoshino, T. Mahfouz, A. Abdrabou, M. Elkholy (Assuit, Egypt; Chiba, Japan)
- P2786 Role of systemic and bronchial oxidative stress and inflammation in lung cancer predisposition in patients with COPD  
C. Fermoselle, V. Curull, A. Sanchez-Font, L. Pijuan, J. Gea, E. Barreiro (Barcelona, Spain)
- P2787 Detection of patients with lung cancer out of a risk group by breath sample presentation to sniffer dogs  
R. Ehmann, E. Boedeker, U. Friedrich, J. Sagert, T. Walles, G. Friedel (Stuttgart, Gerlingen, Löffingen, Germany)
- P2788 A new possibility of process monitoring in lung cancer: Volatile organic compounds detected with ion mobility spectrometry to follow the success of the therapeutic process  
J. I. Kurth, K. Darwiche, J. I. Baumbach, L. Freitag (Essen, Saarbruecken, Germany)
- P2789 The research on early detection of lung cancer with exhaled volatile organic compounds  
Y. Hu, K. Ying, E. Chen, F. Liu (Hangzhou, China)
- P2790 Volatile organic compounds in lung cancer patients before and after tumour resection  
K. Darwiche, I. Kurth, J. I. Baumbach, U. Sommerwerck, H. Teschler, L. Freitag (Essen, Saarbruecken, Germany)
- P2791 New contributions in the determination of volatile organic compounds (VOC) in lung cancer (LC)  
J. Jareño, M. A. Muñoz, G. Rodríguez, C. Civera, A. Aguilar, J. A. Maldonado, B. Carrillo, C. Gutiérrez, M. V. García, B. Morales, J. L. Álvarez-Sala, L. Callol (Madrid, Boadilla del Monte, Spain)
- P2792 Discriminating NSCLC from COPD using patterns derived from an electronic nose  
C. Molik-Oeser, S. Tahanovich, O. Schroeder, S. Hammerschmidt, R. Genzel, M. Syhre, H. Wirtz (Leipzig, Borsdorf, Germany)
- P2793 Neutrophil elastase levels is higher in patients with lung cancer than chronic obstructive pulmonary disease  
N. Vaguliene, S. Lavinskiene, M. Zemaitis, S. Miliuskas, R. Sakalauskas (Kaunas, Lithuania)
- P2794 The eosinophilic infiltration of lung cancer tissue and its relationship with the expression of IL-5  
X. Han, B. He (Beijing, China)
- P2795 Association of genetic polymorphisms of matrix metalloproteinase (MMP)14 to the susceptibility of non-small cell lung cancer  
Y. L. Lee, W. E. Cheng, S. C. Chen, C. M. Shih, W. Chen (Taichung, Chia-Yi, Taiwan)
- P2796 The expression and clinical significance of PD-L1<sup>+</sup>CD68<sup>+</sup> macrophages in peripheral blood mononuclear cells of non-small cell lung cancer  
J. A. Huang, Y. B. Chen, P. Xu (Suzhou, China)
- P2797 Circulating CD133(+) stem cells in lung cancer patients  
J. Domagala-Kulawik, T. Skirecki, G. Hoser (Warsaw, Poland)
- P2798 Evaluation of IL-6 level in serum and bronchoalveolar lavage fluid of patients with non-small cell lung cancer (NSCLC)  
M. Petrovic, N. Ilic, Z. Lazic, I. Cekerevac, L. Novkovic, G. Kostic, V. Cupurdija (Kragujevac, Republic of Serbia)
- P2799 Magnolol can induce apoptosis in non-small cell lung cancer via caspase-independent pathway  
S. H. Chu, P. L. Liu, J. R. Tsai, I. W. Chong (Kaohsiung, Taiwan)
- P2800 Emerging prognostic biomarkers in non small cell lung cancer patients: Impact of treatment with nimesulide (COX-2 inhibitor) combined with chemotherapy  
S. Abdel-Ghany, N. Elmelegy, A. Mohamed-Hussein, R. Hana (Assiut, Egypt)
- P2801 Investigation of biomarkers for pulmonary carcinomatous lymphangitis in patients with lung cancer  
M. Kawaishi, M. Hashimoto, H. Yanagisawa, T. Kazuyori, N. Takasaka, Y. Yumino, S. Fujii, J. Kojima, T. Ishikawa, T. Numata, H. Hara, K. Saito, J. Araya, K. Nakayama, K. Kuwano (Tokyo, Japan)
- P2802 Microparticle-associated tissue factor activity is increased in late stage lung cancer  
F. Martino, M. Zurlo, T. Neri, S. Cini, A. Chella, A. Palla, E. Mariancini, A. Celi, L. M. Tavanti (Pisa, Italy)

HALL 2-41

SESSION 288

12:50 - 14:40

## Thematic Poster Session: Instructive clinical aspects of lung cancer

**Chairs:** G. Hardavella (Athens, Greece), A. Kempa (Hemer, Germany), N. Triller (Golnik, Slovenia), K. Zarogoulidis (Thessaloniki, Greece)

- P2803 Usefulness of serum procalcitonin in lung cancer patients with elevated serum C-reactive protein level  
H. J. Ban, S. G. Ji, S. Y. Chi, E. Y. Kim, Y. H. Kim, K. S. Kim, I. J. Oh, Y. C. Kim, Y. S. Kwon, Y. I. Kim, S. C. Lim (Dongku, Republic of Korea)
- P2804 Procalcitonin: A prognosis factor in lung cancer and a marker for small-cell lung cancer  
M. Patout, V. Brunel, M. Salaun, S. Bota, L. Thiberville (Rouen, France)
- P2805 Serum levels of interleukin 8 and plasma levels of osteopontin in patients with non-small cell lung cancer during chemotherapy  
E. Rogala, A. Rozy, B. Roszkowska-Sliz, J. Chorostowska-Wynimko, K. Roszkowska-Sliz (Warsaw, Poland)

- P2806 Role of C reactive protein in non small cell lung cancer staging  
J. A. Torrecilla, S. Scrimini, J. Saulea, F. de Borja García-Cosío, A. Noguera, A. Iglesias, A. Ríos, R. Córdova, A. Agustí (Palma Mallorca, Bunyola, Barcelona, Madrid, Spain)
- P2807 The prognostic value of anemia, thrombocytosis and leukocytosis at time of diagnosis in patients with non-small cell lung cancer  
M. Sandelin, G. Holgersson, C. Janson, S. Ekman, M. Bergqvist (Uppsala, Sweden)
- P2808 Analysis of the clinical feature of 383 patients with lung cancer  
Y. Zhou, Y. Li, W. Huang, X. Cai, Q. Zeng, L. Huang (Guangzhou, China)
- P2809 TTF-1 in advanced SCLC – Diagnostic and prognostic relevance  
D. Misch, J. Kollmeier, S. Griff, C. Boch, K. Zimmermann, T. Blum, W. Grüning, T. Mairinger, T. Bauer (Berlin, Germany)
- P2810 Pulmonary primary adenocarcinoma: Diagnosis, treatment and outcome  
F. Chermiti Ben Abdallah, D. Achour, S. Boudaya, A. Chtourou, S. Taktak, R. Mahouachi, A. Ben Kheder (Ariana, Tunisia)
- P2811 Early complications after lung resections at patients treated for lung cancer with and without neoadjuvant hemiotherapy  
G. Kondov, Z. Spirovski, T. Trajkovska, S. Jovev, I. Topuzovska Kondova, N. Tolevska, B. Kondov (Skopje, FYROM)
- P2812 Patterns of recurrence after resection surgery of lung cancer: Clinical correlations and survival  
M. G. Cortez Montero, R. Dacal Quintas, J. Abal Arca, M. J. García García, M. T. Alves Perez, P. Marcos Velazquez (Orense, Spain)
- P2813 Radiofrequency ablation in the treatment of malignant lung tumors  
A. Reshetov, I. Rutkin, S. Lazarev, E. Topuzov, V. Balashov (Saint-Petersburg, Russian Federation)
- P2814 Second primary lung cancers developed following different system tumors  
C. Ozdilekcan, S. Turanli, N. Songur, H. Cakmak (Ankara, Turkey)
- P2815 Cellular atypia and lung cancer  
C. António, F. Luís, S. Correia, N. Sousa, L. Ferreira (Guarda, Portugal)
- P2816 Albumin-bound paclitaxel (nab-P) may play an important role in the treatment of non-small-cell lung cancer (NSCLC) patients  
A. Kavvadias, A. Charpidou, I. Gkiozos, G. Tsoukalas, K. Syrigos (Athens, Greece)
- P2817 Smoking habits and erlotinib response in non-small-cell lung cancer (NSCLC) treatment  
R. Monteiro, A. Antunes, I. Gonçalves, C. Lima, A. Barroso, S. Neves, S. Conde, B. Parente (Vila Nova de Gaia, Portugal)
- P2818 What outcome after the prescription of neoadjuvant chemotherapy in lung cancer?  
H. Smadhi, M. S. Boudaya, A. Marghli, F. Charmiti, S. Ouerghi, J. Mohamed, E. Brahem, B. Smati, T. Mestiri, T. Kilani (Ariana, Tunisia)
- P2819 Effect of cardiovascular comorbidities on the survival patients with stage I and II non-small-cell lung cancer  
D. Bursac, N. Secen, D. Sazdanic-Velikic, G. Stojanovic, A. Tepavac, Z. Lozanov-Crvenkovic (Sremska Kamenica, Novi Sad, Republic of Serbia)
- P2820 Metastatic bronchopulmonary carcinoid  
F. Triest, K. Nackaerts, C. Dooms (Leuven, Belgium)
- P2821 Primary posterior mediastinum epithelioid angiosarcoma complicated with pulmonary thromboembolism: A case report  
Y. Su, B. Gao, J. Liu, H. Xie (Shanghai, China)
- P2822 A 55 year old man with bilateral pulmonary nodules, neuropathy and renal nodules  
V. Pathak, G. Aryal, L. Clouse (Marshfield, United States of America)

HALL 2-42

SESSION 289

12:50 - 14:40

### Thematic Poster Session: Pleural and mediastinal malignancies: management and rare clinical cases

**Chairs:** N. Maskell (Bristol, United Kingdom), P. Zarogoulidis (Thessaloniki, Greece), P. Astoul (Marseille, France)

- P2823 Mesothelioma in north east London  
E. Hadley, T. O'Shaughnessy, F. Breen, M. Apps (London, United Kingdom)
- P2824 Fibrosing mediastinitis mimicking bronchogenic carcinoma  
B. Berktaş, D. Koksall, H. Bayiz, N. Mutluay, A. Koyuncu, F. Demirag, G. Dagli, M. Berkoglu (Ankara, Turkey)
- P2825 Medical pleurodesis – Safety, effectiveness and adherence to the guidelines: East of England DGH experience  
A. Jahangir, V. Sirpa, A. Arya, S. Durairaj (Kings Lynn, United Kingdom)
- P2826 A rare case of malignant pleural mesothelioma presenting with multiple metastatic pulmonary nodules  
N. Basay, N. Mendil, H. Bayiz, D. Koksall, N. Mutluay, F. Demirag, B. Berktaş, M. Berkoglu (Ankara, Turkey)
- P2827 Benefit of the serum-effusion albumin gradient in congestive heart failure patients  
P. Sangsayunh, B. Saejueng (Nonthaburi, Thailand)

## MONDAY SEPTEMBER 26

- P2828 Epigenetic deregulated translation control of C/EBP-alpha leads to increased mesothelioma cell proliferation  
J. Zhong, N. Miglino, M. Tamm, D. Lardinois, M. Roth (Basel, Switzerland)
- P2829 Granulomatous reaction – A common cause of mediastinal and hilar lymphadenopathy in non-pulmonary malignancies  
A. Sundset, I. Leuckfeld, P. Gjaever, P. Jebsen, A. Naalsund (Oslo, Norway)
- P2830 Patients with malignant pleural effusions who are treated with indwelling pleural catheters spend fewer days in hospital  
E. Fysh, A. W. Musk, Y. C. G. Lee (Perth, Australia)
- P2831 The burden of mesothelioma mortality: Estimation as the first step to prevention  
A. Jamil, B. Prathibha (Canterbury, United Kingdom)
- P2832 Evaluation of pulmonary reexpansion after thoracocentesis using electrical impedance tomography  
S. Alves, F. Vargas, M. Amato, L. Teixeira, C. Carvalho, R. Sales, J. Puka, P. Caruso (São Paulo, Brazil)
- P2833 Malignant pleural mesothelioma: Facts & survival rate  
C. Guimarães, L. Fernandes, L. Rodrigues, A. Figueiredo, F. Barata (Coimbra, Portugal)
- P2834 Acute pleural service: Experience and pathways  
B. Khan, M. Townsend (Dartford, United Kingdom)
- P2835 First ever report of histologically proven bronchiolitis obliterans organizing pneumonia after antineoplastic treatment of a malignant pleural mesothelioma with cisplatin and pemetrexed  
M. Lehmann, A. T. Kempa, F. Stanzel, M. Serke (Hemer, Germany)
- P2836 An analysis of indwelling pleural catheter (IPC) insertions for malignant pleural effusions  
E. Reid, P. Sivasothy, S. Marciniak (Cambridge, United Kingdom)
- P2837 Unusual case of multiple pleural masses  
V. Sirpa, P. Kanthapillai (Luton, United Kingdom)
- P2838 Comparative evaluation of alkaline phosphatase (ALP) & adenosine deaminase (ADA) in pleural fluid and serum of patients with pleural effusions  
I. Tsiloni, M. Minas, V. Tsolaki, A. Triantaris, C. Daenas, E. Gerogianni, K. Gourgoulisanis (Larissa, Greece)
- P2839 The impact of malignant pleural effusion – A retrospective review  
R. Budd, N. Acharya, M. Malik (Barnsley, United Kingdom)
- P2840 Desmoplastic small round cell tumour of the pleura. Report of a rare case  
I. Vlachantoni, E. Chondrou, M. Baka, H. Kosmidis, M. Gaga (Athens, Greece)
- P2841 Miliary mesothelioma: A consequence of trimodality therapy?  
L. Purek, S. Laroumagne, H. Dutau, P. Astoul (Marseille, France)
- P2842 Primary pulmonary Hodgkin's lymphoma with endobronchial involvement: A case report  
O. Okutan, O. Ayten, D. Demirel, E. Demirer, D. Tas, Z. Kartaloglu (Istanbul, Van, Turkey)

HALL 2-43

SESSION 290

12:50 - 14:40

## Thematic Poster Session: Medical education

**Chairs:** A. Simonds (London, United Kingdom), K. E. Bloch (Zurich, Switzerland), P. L. Haslam (London, United Kingdom)

- P2843 Health care professionals's knowledges of OSAHS 's diagnosis  
P. M Prapa, I. Nikolopoulos, P. Kythreotis, K. Gourgoulisanis (Athens, Larissa, Greece)
- P2844 Experience of an intercostal chest drain training course in the Yorkshire and Humber postgraduate deanery  
G. Esterbrook, T. Sutherland, M. Callister, J. McCreanor, J. Hogg, P. Smith, R. Teoh, J. Kastelik (Wakefield, Leeds, Hull, United Kingdom)
- P2845 Clinical impact of a program to educate community pharmacists in providing proper inhalation technique for asthma patients  
M. Takemura, K. Mitsui, M. Ido, M. Koyama, M. Matsumoto, D. Inoue, K. Takamatsu, R. Itotani, M. Ishitoko, S. Suzuki, K. Aihara, H. Kagioka, M. Fukui (Osaka, Japan)
- P2846 Quit smoking in pregnancy with asthma  
O. Sukhovskaya, O. Lavrova, N. Kolpinskaya (Saint-Petersburg, Russian Federation)
- P2847 Effect of training in educational programs at the level of control and quality of life of patients with bronchial asthma  
O. Semendyayeva, N. Monogarova, D. Stupachenko, A. Le (Donetsk, Ukraine)
- P2848 Does a training programme in chest drain insertion improve patient safety?  
T. Vatopoulou, C. Dave, A. James, D. McLeod (Birmingham, United Kingdom)
- P2849 Competency assessment of foundation year 1 doctors in the prescription and use of oxygen  
D. Tarpey, D. Lees, A. De Ramon (Warrington, United Kingdom)
- P2850 The use of lambs chests in chest drain insertion simulation  
A. Nazerali-Maitland, M. Goldenberg, N. Jiwa (Kingston, Canada; London, United Kingdom)
- P2851 An assessment of physicians knowledge of the GINA guidelines  
V. Umoh, E. Akpan, A. Aluka, D. Alasia, J. Ekott (Uyo, Calabar, Nigeria)



- P2852 Patients' knowledge about inhalation therapy in pulmonology – One year after intervention  
L. Nagorni-Obradovic, D. Pesut, D. Vukovic, J. Maskovic (Belgrade, Republic of Serbia)
- P2853 Audit of intervention to improve educational experience in a respiratory medicine department  
Z. Pond (Portsmouth, United Kingdom)
- P2854 Audit on pleural procedure in UK district general hospital  
A. Bhatta, I. Satia, R. Sundar, I. Aziz (Wigan, United Kingdom)
- P2855 High-fidelity in-situ simulation – A novel training modality for non-invasive ventilation  
A. Shah, R. Sharpe, T. Kuwani (London, United Kingdom)
- P2856 Continuing medical education: A contribute of the pneumologists in the pre-hospital medicine  
P. M. Olia, A. Querci (Prato, Italy)

## AUDITORIUM

## SESSION 291

13:00 - 14:30

**Lunchtime session: ERS/NEJM "Late breaking research session"**

**Aims:** This joint ERS/NEJM lunchtime session will present late breaking reports of research in lung disease including asthma, COPD, idiopathic pulmonary fibrosis and others. The reports will consist of presentations of articles that will be published on-line in the NEJM at the time of presentation in Amsterdam.

**Target audience:** Clinicians and researchers interested in asthma, COPD and idiopathic pulmonary fibrosis.

**Chairs:** K. F. Rabe (Großhansdorf, Germany), E. Bel (Amsterdam, The Netherlands)

- 13:00 Decline in forced expiratory volume in 1 second in patients with chronic obstructive pulmonary disease: variability, determinants and biomarkers  
J. Vestbo (Hvidovre, Denmark) 2861
- 13:18 Genome-wide association of GLCCI1 with asthma steroid treatment response  
K. Tantisira (Boston, United States of America) 2857
- 13:36 Efficacy of a tyrosine kinase inhibitor in idiopathic pulmonary fibrosis  
L. Richeldi (Modena, Italy) 2858
- 13:54 Lebrikizumab as add-on treatment in adults with asthma  
J. Corren (Los Angeles, United States of America) 2860
- 14:12 Reduced lung-cancer mortality with low-dose computed tomographic screening  
D. Lynch (Denver, United States of America) 2859

## ELICIUM 2

## SESSION 292

13:00 - 14:15

**Lunchtime session: ECDC and WHO tuberculosis guidelines: update 2011 (organised within the FP7 funded TB-PAN-NET project)**

**Aims:** This symposium is aimed at introducing the new guidelines of interest for pneumonologists involved in TB care and control activities. The new TB guidelines (European-adapted Standards of Care and new WHO guidelines on MDR-TB control) are presented in a unique forum offered by the ERS to the European pneumonologists.

**Target audience:** Clinicians, clinical scientists, immunologists, microbiologists, specialist nurses and public health specialists involved in tuberculosis control, surveillance, care and research.

**Chairs:** D. Cirillo (Milan, Italy), A. Sandgren (Stockholm, Sweden)

- 13:00 Introduction from the Chairs on the FP7 funded TB-PAN-NET project and on the new TB guidelines  
D. Cirillo (Milan, Italy) 2862
- 13:25 Guidance for implementation of TB care in the EU  
G. B. Migliori (Tradate, Italy) 2863
- 13:50 The WHO Guidelines for the Programmatic Management of drug-resistant TB: the 2011 update - recommendations and evidence  
D. Falzon (Geneva, Switzerland) 2864

## ROOM 4.1

## SESSION 293

13:00 - 14:15

**Lunchtime session: How to integrate care: crossing European borders**

**Aims:** The aims of this symposium are to:

- identify possible problems in implementing integrated care;
- to present and discuss the current national strategies aimed at solving implementing integrated care pathways.

After the introductory presentations from (inter-)national experts in this field, a discussion will be held on how the above mentioned problems could best be addressed. To stimulate the discussion statements will be given to which the audience will be invited to comment.

Topics to be covered by the discussion:

1. What role should primary care physicians have in the follow-up of chronic COPD patients in a well-functioning integrated care system?
2. Do pulmonologists have a role in diagnosing ('uncomplicated') COPD in a well-functioning integrated care system?
3. Is the existing financial reimbursement system an important factor for successful implementation of an integrated care pathway?

**Target audience:** Pulmonologists, paediatric pulmonologists, physicians, respiratory nurses, patient organizations and policy makers.

## MONDAY SEPTEMBER 26

Chairs: F. Smeenk (Eindhoven, The Netherlands), D. Price (Cawston, United Kingdom)

13:00	Integrated care: the Dutch experience T. Van Der Molen (Groningen, The Netherlands)	2865
13:25	Integrated care: the Spanish experience J. Roca (Barcelona, Spain)	2866
13:50	Integrated asthma care: the British experience M. L. Levy (London, United Kingdom)	2867

## ERS SCIENTIFIC ASSEMBLY MEMBERS' MEETINGS

13:00 - 14:15

Open to ERS Members and interested participants

Room 5.2	01 Clinical
Room D203-204	03 Cell and Molecular Biology
Room G106-107	05 Inflammatory Airway Diseases and Clinical Allergy
Room E104-106	06 Occupation and Epidemiology
Room D201-202	07 Paediatrics
Room E102	09 Allied Respiratory Professionals

## ROOM G102-103

SESSION 296

13:00 - 14:00

Meet the Professor: What is the optimal lymph node staging algorithm in locoregional NSCLC? PRO/CON DEBATE

2868 G. Massard (Strasbourg, France), J. Annema (Leiden, The Netherlands)

## ROOM G104-105

SESSION 297

13:00 - 14:00

Meet the Professor: Strategies for treating idiopathic pulmonary fibrosis

2869 R. M. du Bois (London, United Kingdom)

## ROOM E103

SESSION 302

13:00 - 14:00

Meet the Professor: Is the increase in asthma prevalence over in Europe? And worldwide?

2870 B. Lundback (Gothenburg, Sweden)

## ROOM G109

SESSION 303

13:00 - 14:00

Meet the Professor: Post-transplant infections: Diagnosis and treatment

2871 C. Chaparro (Toronto, Canada)

## ROOM G110

SESSION 304

13:00 - 14:00

Meet the Professor: Beta-blockers in respiratory medicine

2872 N. Hanania (Houston, United States of America)

## ROOM G111

SESSION 305

13:00 - 14:00

Meet the Professor: Antibiotic treatment of exacerbations of COPD: when, why...and how?

2873 S. Sethi (Buffalo, United States of America)

## ROOM 3.1

SESSION 308

13:15 - 14:30

Practical Workshop: NIV in COPD

Organised by Weinmann Geräte für Medizin GmbH + Co. KG

Chair: S. Nava (Bologna, Italy)

13:15	Introduction S. Nava (Bologna, Italy)	2878
13:17	Challenges and pitfalls of NIV in COPD S. Nava (Bologna, Italy)	2879
13:27	Compliance and therapeutic efficiency- the pressure level story M. Dreher (Freiburg, Germany)	2880
13:37	The technical point of view J. Pelikan (Hamburg, Germany)	2881
13:43	Concluding remarks S. Nava (Bologna, Italy)	2882
13:45	Hands-on	
14:30	Close	

## ROOM 3.2

## SESSION 309

13:15 - 14:30

**Practical Workshop: Management of sleep-disordered breathing in patients with cardiovascular disease***Organised by ResMed Europe*

**Aims:** This course will cover the relevant technological and therapeutic aspects of the cardio-respiratory management of patients with sleep-disordered breathing and cardiovascular disease (CVD). Participants will learn about the therapeutic and work-flow related impact of remote patient monitoring using wireless information and clinical intelligence functions. The course will review the latest data on the detection and treatment of obstructive and central apnoeas in patients with moderate and severe CVD using advanced adaptive servo-ventilation. Additionally, the course will cover mandibular repositioning devices as a treatment alternative to PAP therapy for mild-to-moderate and non-compliant OSA patients, and related novel technologies that enable compliance monitoring.

**Chairs:** P. Levy (Grenoble, France), H. Woehrle (Ulm, Germany)

- |       |  |      |
|-------|--|------|
| 13:15 | Introduction   |      |
|       | P. Levy (Grenoble, France)   | 2885 |
| 13:17 | Why CPAP compliance matters for the cardiovascular system                |      |
|       | P. Levy (Grenoble, France)   | 2886 |
| 13:30 | What are the issues with compliance/adherence in cardiovascular patients |      |
|       | W. Randerath (Solingen, Germany)   | 2887 |
| 13:45 | Hands-on demonstration of compliance-related technologies/solutions:     |      |
|       | - Personal e-health apps (iPad, iPhone, etc.)                            |      |
|       | - Narval mandibular-repositioning devices                                |      |
| 14:30 | Close  |      |

## ROOM 4.2

## SESSION 310

13:15 - 14:30

**Practical Workshop: Telemonitoring patients using CPAP***Organised by Philips Respironics*

**Aims:** The aim of this session is to provide basic knowledge about the role of telemonitoring in the management of patients using CPAP. This includes a case study demonstrating the application of a new telemonitoring system to manage a patient with sleep-disordered breathing using CPAP, and a product demonstration.

**Target audience:** Anybody who has an interest in telemonitoring and its application in patients with sleep-disordered breathing using CPAP e.g. sleep technologists /scientists, respiratory nurses, respiratory physicians, pulmonologists.

**Chair:** J. A. Hedner (Gothenburg, Sweden)

- |       |   |      |
|-------|---|------|
| 13:15 | Introduction  |      |
|       | J. A. Hedner (Gothenburg, Sweden)                                   | 2890 |
| 13:17 | The role of telemonitoring in the management of patients using CPAP |      |
|       | L. Grote (Gothenburg, Sweden)                                       | 2891 |
| 13:31 | A web-based management system for patients using CPAP               |      |
|       | G. Rabeony (Suresnes, France), F. Abdenbi (Goussainville, France)   | 2892 |
| 13:45 | Practical demonstration and training                                |      |

## EMERALD

## SESSION 311

13:15 - 14:30

**Practical Workshop : Airway clearance with neuromuscular patients: use of the PEGASO and MINI PEGASO cough assistant***Organised by DIMA Italia S.r.l.*

**Aims:** The aim of this workshop is to show the longstanding experience in airway clearance therapy with the PEGASO cough assistants for the treatment of paediatric and adult neuromuscular patients in Italy and abroad.

The workshop also represents a platform where health professionals can exchange their experience of airway clearance methods and discuss the pros and cons of each. Still, there is a lack of information regarding the therapy approaches and newest technologies available on the market, a gap this workshop intends to fill.

**Target audience:** Anybody treating patients with neuromuscular diseases, suffering from retained bronchial secretions, such as pneumologists, neurologists, paediatricians, respiratory therapists and ICU nurses.

- |       |  |      |
|-------|--|------|
| 13:15 | Introduction   |      |
|       | R. Cutrera (Rome, Italy)   | 2894 |
| 13:17 | Overview of diseases with severe airway clearance problems and their treatment     |      |
|       | K. Siemon (Schmallenberg-Grafschaft, Germany)                                      | 2895 |
| 13:30 | Presentation of treatment results with PEGASO cough and MINI PEGASO cough          |      |
|       | R. Cutrera (Rome, Italy), M. Chiarini Testa (Rome, Italy)                          | 2896 |
| 13:45 | Practical demonstration, training of PEGASO and MINI PEGASO devices and discussion |      |
|       | R. Cutrera (Rome, Italy), M. Chiarini Testa (Rome, Italy)                          | 2897 |
| 14:30 | Close  |      |

## MONDAY SEPTEMBER 26

ROOM E107

SESSION 312

13:15 - 14:30

**Practical Workshop: Medical thoracoscopy***Organised by KARL STORZ*

- 13:15 Small introduction in the field of medical thoracoscopy with a presentation and demonstration  
R. Heine (Halle/Saale, Germany) 2899
- 13:30 Hands-on workshop with instruments and Phantoms  
R. Heine (Halle/Saale, Germany) 2900

ROOMS F002+F003

SESSION 313

13:15 - 14:30

**Practical Workshop: What's new in Noninvasive Ventilation interfaces?***Organised by Covidien plc, Europe***Chair: G. Conti (Rome, Italy)**

- 13:15 Introduction
- 13:17 Clinical results in NIV with conventional interfaces  
G. Conti (Rome, Italy) 2902
- 13:32 Clinical advantages of innovative interfaces  
M. Antonelli (Rome, Italy) 2903
- 13:45 NIV with helmet, tips and tricks from the experts  
C. Gregoretti (Torino, Italy), R. Costa (Rome, Italy) 2904

ROOM 7.1

SESSION 314

14:45 - 15:05

**Romain Pauwels Research Award Ceremony (supported by GlaxoSmithKline)**

- 14:45 ERS Romain Pauwels Research Award Introduction  
L. Nicod (Lausanne, Switzerland) 2905
- 14:50 2011 Romain Pauwels Research Awardee  
B. Vanaudenaerde (Blanden, Belgium) 2906

FOLLOWED BY

15:05 - 16:45

**Grand Round: "Imaging of the lung parenchyma: an interactive session on interpretation strategies"**

**Aims:** The aim of this session is to demonstrate and discuss characteristic imaging findings in patients with a decrease and increase in lung density based on individual patient's history, providing imaging strategies for different patient populations.  
**Target audience:** Clinicians and all health professionals caring for patients with various lung diseases requiring imaging for noninvasive disease characterisation.

**Chairs: R. Kubale (Pirmasens, Germany), L. Nicod (Lausanne, Switzerland)**

- 15:05 Patients with decreased lung attenuation  
S. Ley (Heidelberg, Germany) 2907
- 15:30 Airspace opacities  
W. De Wever (Leuven, Belgium) 2908
- 15:55 Patients with ground-glass opacities  
H. Roberts (Toronto, Canada) 2909
- 16:20 35 years old lady with dyspnoea, thickened septal thickening, mediastinal lymphadenopathy and a cystitis in the history  
C. Schaefer-Prokop (Amsterdam Zuid-Oost, The Netherlands) 2910

AUDITORIUM

SESSION 315

14:45 - 16:45

**Session: Paediatric Year in Review**

**Aims:** The audience will receive an overview and an update on the topics/diseases that will be presented by experienced clinicians.

Suggested references for each presentation.

- «Bacterial infections and community-acquired pneumonia in children»  
- Ranganathan SC, Sonnappa S. Pneumonia and other respiratory infections. *Pediatr Clin N Am* 2009; 56: 135-156.  
- Haider BA, Saheed MA, Bhutta ZA. Short course versus long-course antibiotic therapy for non-severe community acquired pneumonia in children aged 2 months to 59 months. *Cochrane Database of Systematic Reviews* 2008; 2: CD005976.  
- Li ST, Tancredi DJ. Empyema hospitalizations increased in US children despite pneumococcal conjugate vaccine. *Pediatrics* 2010; 125: 26-33.  
«Problematic severe asthma in children»  
- Hedlin G, Bush A, Loedrup Carlsen K, et al. Problematic severe asthma in children: not one problem but many. *A GA2LEN*

CLINICAL

PAEDIATRIC

initiative. *Eur Respir J* 2010; 36: 196-201.

- Loedrup-Carlsen KC, Hedlin G, Bush A, et al. Assessment of problematic severe asthma in children. *Eur Respir J* 2011; 37: 432-440.

- Konradsen JR, Nordlund B, Lidegran M, et al. Problematic severe asthma: a proposed approach to identifying children who are severely resistant to therapy. *Pediatr Allergy Immunol* 2011; 22: 9-18.

- Bush A, Pedersen S, Hedlin G, et al. Pharmacological treatment of severe asthma in children. *Eur Resp J* 2011; [Epub ahead of print DOI: 10.1183/09031936.00030711].

«Environmental exposures and respiratory outcomes in children»

- Ege MJ, Mayer M, Normand AC, et al. Exposure to environmental microorganisms and childhood asthma. *N Engl J Med* 2011; 364: 701-709.

- Breton CV, Salam MT, Vora MT, et al. Genetic variation in the glutathione synthesis pathway, air pollution, and children's lung function growth. *Am J Respir Crit Care Med* 2011; 183: 243-248.

- Nagel G, Weinmayer G, Kleiner A, et al. Effect of diet on asthma and allergic sensitisation in the International Study on Allergies and Asthma in Childhood (ISAAC) Phase Two. *Thorax* 2010; 65: 516-522.

- Voisin C, Sardella A, Marcucci F, et al. Infant swimming in chlorinated pools and the risks of bronchiolitis, asthma and allergy. *Eur Respir J* 2010; 36: 41-47.

«Interstitial lung diseases in child»

- Clement A, Nathan N, Epaud R, et al. Interstitial lung diseases in children. *Orphanet J Rare Dis* 2010; 5: 22.

- Corvol H, Flamein F, Epaud R, et al. Lung alveolar epithelium and interstitial lung disease. *Int J Biochem Cell Biol* 2009; 41: 1643-1651.

- Deutsch GH, Young LR, Deterding RR, et al. Diffuse lung disease in young children: application of a novel classification scheme. *Am J Respir Crit Care Med* 2007; 176: 1120-1208.

- Griese M, Haug M, Brasch F, et al. Incidence and classification of pediatric diffuse parenchymal lung diseases in Germany. *Orphanet J Rare Dis* 2009; 4: 26.

**Target audience:** The subjects of the session covers a wide variety of topics relevant to paediatricians but also to other clinically active physicians and health professionals.

**Chairs:** E. Eber (Graz, Austria), C. Kuehni (Bern, Switzerland)

14:45	Bacterial infections and community-acquired pneumonia in children J. E. Dankert-Roelse (Heerlen, The Netherlands)	2911
15:15	Problematic severe asthma in children G. Hedlin (Stockholm, Sweden)	2912
15:45	Environmental exposures and respiratory outcomes in children S. Turner (Aberdeen, United Kingdom)	2913
16:15	Interstitial lung diseases in children A. Clément (Paris, France)	2914

## ROOM 7.2

## SESSION 316

14:45 - 16:45

**Symposium: Highlights in the treatment of pleural empyema**

**Aims:** Based on the published literature, new details of treatment will be described and possible clinical algorithms will be presented and discussed.

**Target audience:** Clinicians, pulmonologists, surgeons, paediatricians, residents and fellows.

**Chairs:** E. Canalis (Barcelona, Spain), M. Confalonieri (Trieste, Italy)

14:45	New antibiotic and other medical options for treatment of non-tuberculous empyema according to its classification F. Blasi (Milan, Italy)	2915
15:15	Evidence-based indications for pleurofibrinolysis F. Rodriguez Panadero (Seville, Spain)	2916
15:45	Chronic empyema: should we operate? A. End (Vienna, Austria)	2917
16:15	Special characteristics of empyema in children A. Jaffe (New South Wales, Australia)	2918

## ELICIUM 2

## SESSION 317

14:45 - 16:45

**Symposium: Cancer tissue is the issue**

**Aims:** Based on the published literature, new techniques will be described and possible clinical algorithms will be presented and discussed.

**Target audience:** Clinicians, pulmonologists, surgeons, oncologists, GPs, residents and fellows.

**Chairs:** J-P. Sculier (Brussels, Belgium), B. Crestani (Paris, France)

14:45	Biomarkers in lung cancer E. Brambilla (Grenoble, France)	2919
15:15	What the tissue sampler can offer F. Herth (Heidelberg, Germany)	2920
15:45	What the pathologist can do P. Schnabel (Heidelberg, Germany)	2921
16:15	What the thoracic oncologist asks for R. M. Huber (Munich, Germany)	2922

## MONDAY SEPTEMBER 26

CLINICAL/BASIC

ROOM 5.1

SESSION 318

14:45 - 16:45

**Symposium: Innate immune responses in COPD and severe asthma: new targets for therapy?****Aims:** This session will provide:

- cutting-edge knowledge on innate immunity in highly prevalent and difficult-to-treat airway diseases;
- a current understanding for shared and distinct innate immune mechanisms in COPD and severe asthma;
- insights into potential new therapeutic strategies that emphasise molecular mechanisms for innate immune responses.

**Target audience:** Clinicians, scientists and research fellows.**Chairs:** B. Levy (Boston, United States of America), G. Anderson (Parkville, Australia)

- |       |   |      |
|-------|---|------|
| 14:45 | Annexin A1 signalling regulates neutrophil responses: a link to COPD pathogenesis<br>F. D'Acquisto (London, United Kingdom) | 2923 |
| 15:15 | Intraepithelial mast cells promote asthmatic airway responses<br>J. Fahy (San Francisco, United States of America)          | 2924 |
| 15:45 | Dendritic cells in asthma and COPD: opportunities for drug development<br>B. Lambrecht (Ghent, Belgium)                     | 2925 |
| 16:15 | Targeting Toll-like receptors in lung disease: emerging therapeutics<br>J. Mitchell (London, United Kingdom)                | 2926 |

BASIC/PHYSIOLOGY

ROOM 4.1

SESSION 319

14:45 - 16:45

**Hot Topic: Bone marrow-derived stem cells in respiratory diseases: a future therapy?****Aims:** This session will update the audience on the current knowledge of the pathophysiologic and potential therapeutic role of bone marrow-derived mesenchymal stem cells and progenitor endothelial cells in relevant diseases, such as COPD, sleep apnoea, acute lung injury/acute respiratory distress syndrome and pulmonary hypertension.**Target audience:** Clinicians and scientists.**Chairs:** P. M. A. Calverley (Liverpool, United Kingdom), A. Artigas (Sabadell, Spain)

- |       |  |      |
|-------|--|------|
| 14:45 | Circulating progenitor cells in COPD patients<br>P. Palange (Rome, Italy)  | 2927 |
| 15:15 | Bone marrow-derived stem cells in obstructive sleep apnoea<br>R. Farré (Barcelona, Spain)                                  | 2928 |
| 15:45 | Mesenchymal stem cells: therapeutic potential in acute lung injury<br>M. Matthay (San Francisco, United States of America) | 2929 |
| 16:15 | Endothelial progenitors in pulmonary hypertension<br>C. Agostini (Padova, Italy)   | 2930 |

ELICIUM 1

SESSION 320

14:45 - 16:45

**Oral Presentation: COPD: mechanisms and biomarker****Chairs:** A. Agusti (Barcelona, Spain), M. Breyer (Vienna, Austria)

- |       |  |      |
|-------|--|------|
| 14:45 | Association of testosterone level with phenotypic characteristics and long-term outcomes of men with COPD in the ECLIPSE cohort<br>R. Casaburi, R. V. Clark, B. Miller, L. Edwards, S. Rennard, R. Tal-Singer, R. Swerdlhoff, C. Wang (Torrance, Research Triangle Park, King of Prussia, Omaha, United States of America)   | 2931 |
| 15:00 | Relation of health-related quality of life, frequent exacerbation phenotype and circulating systemic biomarkers in stable COPD<br>D. Stolz, F. Blasi, R. Louis, W. Boersma, A. Lacoma, K. Kostikas, P. Castellotti, L. Boeck, B. Milenkovic, T. Welte, J. Rakic, E. Wouters, J. Aerts, A. Huerta, M. Minas, A. Torres, M. Tamm (Basel, Switzerland; Milan, Italy; Liege, Belgium; Alkmaar, Maastricht, Breda, The Netherlands; Badalona, Barcelona, Spain; Larissa, Greece; Belgrade, Republic of Serbia; Hannover, Germany) | 2932 |
| 15:15 | Anti-elastin immunity in COPD patients<br>M. Rinaldi, A. Lehouck, M. Decramer, ERS President 2011, G. Gayan-Ramirez, W. Janssens (Leuven, Belgium)   | 2933 |
| 15:30 | Resting energy expenditure and adipose tissue leptin expression in patients with COPD<br>M. Brusik, P. Skyba, P. Pobeha, J. Ukropec, B. Ukropcova, D. Gasperikova, R. Tkacova, P. Joppa (Kosice, Bratislava, Slovakia)   | 2934 |
| 15:45 | Prevalence of anaemia in COPD: Less than what has been published before<br>L. Comeche Casanova, M. J. Llorente Alonso, I. Albarrán Lozano, M. P. Rodríguez Bolado, A. Flórez Horcajada, D. Álvaro Álvarez (Móstoles, Madrid, Spain)  | 2935 |
| 16:00 | Can brain MRI explain cognitive decline in COPD? A pilot study<br>J. W. Dodd, R. A. Charlton, M. van den Broek, F. A. Howe, T. R. Barrick, P. W. Jones (London, United Kingdom)  | 2936 |
| 16:15 | Iron deficiency in non-anemic patients with chronic obstructive pulmonary disease<br>M. Urban, O. C. Burghuber, W. Hübl, G. C. Funk (Vienna, Austria)  | 2937 |

## FORUM

## SESSION 321

14:45 - 16:45

## Oral Presentation: Barrier functions in sepsis and acute lung injury

Chairs: J. Hamacher (Bern, Switzerland), T. Martin (Seattle, United States of America)

- 14:45 TNF- $\alpha$  induced septic shock is attenuated in acid sphingomyelinase-deficient mice  
L. K. Reiss, Y. Yang, D. Adam, S. Uhlig (Aachen, Kiel, Germany) 2938
- 15:00 Pulmonary epithelial CCR3 promotes LPS-induced lung inflammation by mediating release of IL-8  
B. Li, C. Dong, G. Wang, H. Zheng, X. Wang, C. Bai (Shanghai, Changchun, China) 2939
- 15:15 Lipopolysaccharide attenuates endothelial barrier function through a pp60<sup>Src</sup> mediated inhibition of dimethylaminohydrolase (DDAH)  
S. Aggarwal, S. Sharma, S. Kumar, S. Black, Y. Hou (Augusta, United States of America) 2940
- 15:30 Role of ADAM17 in endotoxin-induced pulmonary inflammation  
D. Drey Mueller, C. Martin, T. Kogel, F. M. Hess, C. P. Blobel, K. Horiuchi, S. Uhlig, A. Ludwig (Aachen, Germany; Tokyo, Japan; New York, United States of America) 2941
- 15:45 NADPH oxidase isoform 1 is expressed in lung tissue of ARDS patients and decreases hyperoxia-induced ROS production and cell death in pulmonary type II epithelial cells  
S. Carnesecchi, I. Dunand-Sauthier, G. Singovsky, Y. Donati, K. Hammad, C. Deffert, K. H. Krause, W. Reith, J. C. Pache, C. Barazzone (Geneva, Switzerland) 2942
- 16:00 Conditioned medium from human mesenchymal stem cells restores both amiloride sensitive sodium transport and epithelial permeability to protein across alveolar epithelial cell monolayers in an in vitro model of alveolar injury  
A. Goolaerts, N. Randrianarison, J. Larghero, V. Vanneaux, C. Planes, M. Matthay, C. Clerici (Paris, Bobigny, France) 2943
- 16:15 Epigenetic regulation of alveolar ion transport  
L. Wujak, S. Becker, W. Seeger, R. Morty (Bad Nauheim, Germany) 2944

## ROOM 5.2

## SESSION 322

14:45 - 16:45

## Oral Presentation: Treatment options and tumour biology of malignant pleural mesothelioma

Chairs: B. Robinson (Perth, Australia), A. Scherpereel (Lille, France)

- 14:45 Keynote lecture: Introduction "Treatment options and tumour biology of malignant pleural mesothelioma"  
B. Robinson (Perth, Australia) 2945
- 15:00 Antitumor activity of MEK and PI3K inhibitors in malignant pleural mesothelioma  
S. Miyoshi, H. Hamada, N. Hamaguchi, H. Katayama, K. Irifune, R. Ito, T. Miyazaki, J. Higaki (Toon, Hiroshima, Japan) 2946
- 15:15 mTOR inhibition blocks tumor growth and pleural fluid accumulation in experimental murine mesothelioma  
M. Vazakidou, S. Magouta, C. Moschos, M. Stratiki, C. Roussos, I. Kalomenidis (Athens, Greece) 2947
- 15:30 Epigenetic deregulated translation control of C/EBP- $\alpha$  leads to increased mesothelioma cell proliferation  
J. Zhong, N. Miglino, M. Tamm, D. Lardinois, L. Bubendorf, J. Szilard, M. Roth (Basel, Switzerland; Sydney, Australia) 2948
- 15:45 The regulatory effect of microRNAs on STAT signaling in malignant mesothelioma  
L. Arzt, H. Kothmaier, F. Quehenberger, I. Halbwedl, H. H. Popper (Graz, Austria) 2949
- 16:00 Epithelial-to-mesenchymal transition in malignant mesothelioma  
A. Diaz-Baquero, B. Romero Romero, L. Gomez-Izquierdo, R. Avila Polo, J. Martin-Juan, F. Rodriguez-Panadero (Seville, Spain) 2950
- 16:15 Second-line therapy in patients with malignant pleural mesothelioma. French retrospective study 2005-2006  
J. Margery, P. Ruffie, F. Riviere, D. Planchard, H. Le Floch, W. Gaspard, B. Besse, F. Vaylet (Clamart, Villejuif, France) 2951
- 16:30 Multimodality treatment of malignant pleural mesothelioma  
G. Ak, M. Metintas, H. Yildirim, H. Batirel, C. Sivrikoz, G. Sari, E. Doner, S. Metintas, E. Dundar (Eskisehir, Istanbul, Turkey) 2952

## ROOM 3.1

## SESSION 323

14:45 - 16:45

## Oral Presentation: COPD: burden of disease, imaging and management

Chairs: C. Janson (Uppsala, Sweden), G. Viegi (Pisa, Italy)

- 14:45 Late-breaking abstract: Nasal symptoms are common in subjects with COPD and concomitant heart disease  
A. Lindberg, L. G. Larsson, E. Rönmark, B. Lundbäck (Umeå, Luleå, Gothenburg, Sweden) 2953
- 15:00 Prevalence of COPD in a rural population in India  
S. Salvi, S. Juvekar, J. Londhe, B. Brashier, S. Madas, P. Barnes (Pune, India; London, United Kingdom) 2954
- 15:15 Using the lower limit of normal to classify lung disease misses at risk people  
D. Mannino, E. Diaz (Lexington, United States of America) 2955

## MONDAY SEPTEMBER 26

- 15:30 Ten-year trend in the prevalence of chronic cough and phlegm among young adults in Italy  
S. Accordini, V. Cappa, I. Cerveri, C. Bombieri, M. Bugiani, L. Casali, L. Cazzoletti, A. Corsico, M. Ferrari, V. Ferretti, A. Fois, F. Locatelli, A. Marcon, M. Olivieri, P. Pirina, R. de Marco (Verona, Pavia, Turin, Perugia, Sassari, Italy) 2956
- 15:45 Costs of COPD by disease severity  
S. A. Jansson, H. Backman, A. Stenling, A. Lindberg, E. Rönmark, B. Lundbäck (Luleå, Södertälje, Umeå, Gothenburg, Sweden) 2957
- 16:00 Associations between quantitative computed tomography (qCT) measures of emphysema and mortality  
A. Johannessen, T. D. Skorge, T. B. Grydeland, H. Coxson, E. Omenaas, A. Gulsvik, P. Bakke (Bergen, Norway; Vancouver, Canada) 2958
- 16:15 Impact of comorbidities on survival of patients with COPD according to GOLD stages  
Z. Jorge, C. Carlos, D. Miguel, C. Claudia, J. De Torres, J. Marin, C. Casanova, V. Pinto-Plata, S. Carrizo, M. Sanchez-Carpintero, J. Zulueta, B. Celli (Pamplona, Las Palmas de G.C., Zaragoza, Tenerife, Spain; Boston, Bay Pines, United States of America) 2959
- 16:30 Glitazones are associated with reduced risk of COPD exacerbations and mortality among patients with diabetes  
D. Au, T. O'Riordan, C. F. Liu, M. Perkins, J. Toole, C. Bryson (Seattle, United States of America) 2960

## ROOM 3.2

## SESSION 324

14:45 - 16:45

## Oral Presentation: Comorbidities and management in primary care

Chairs: N. Chavannes (Leiden, The Netherlands), B. Stallberg (Uppsala, Sweden)

- 14:45 Association of comorbidity and mortality in COPD  
B. Stallberg, K. Lisspers, S. Montgomery, J. Sundh, C. Janson (Uppsala, Orebro, Sweden) 2961
- 15:00 Do patients suffering from heart failure (HF) and chronic obstructive pulmonary disease (COPD) tolerate beta blocker (BB) treatment?  
T. Gil, C. Medina, L. Fernández, F. J. Martínez, A. Ramírez, J. R. Siles, F. Ruiz (Marbella, Estepona, Spain) 2962
- 15:15 Dysfunctional breathing in asthma patients  
S. Chikina, N. Daragan, A. Chuchalin (Moscow, Russian Federation) 2963
- 15:30 COPD disease severity stratification obtained by electronic review of routinely collected primary care data  
D. Ryan, F. Ryan, C. Blackaby, R. Jones, D. Price (Leicester, Edinburgh, Norwich, Plymouth, United Kingdom) 2964
- 15:45 Integration of COPD management across primary and secondary care: Feasibility and impact  
P. White, C. Davidson, N. Baxter, L. Hogg, J. Fenton, J. Barker, P. Seed, H. Thornton (London, United Kingdom) 2965
- 16:00 Comorbidities at time of COPD diagnosis  
D. Price, D. Halpin, R. Winter, S. Hill, E. Bateman, D. Freeman, D. Ryan, M. Kearney, K. Holton, A. Burden, J. von Ziegenweidt, L. Mascarenhas, A. Chisholm, R. Jones (Aberdeen, Norwich, Exeter, London, Cambridge, Norfolk, Loughborough, Runcorn, Plymouth, United Kingdom; Cape Town, South Africa) 2966
- 16:15 Short-term outcomes in community heart failure patients with chronic obstructive pulmonary disease  
S. Ghosh, W. Roberstson, J. Smith, J. Dexter, N. OKelly (Leicester, Melton Mowbray Community Hospital, United Kingdom) 2967

## ROOM 4.2

## SESSION 325

14:45 - 16:45

## Oral Presentation: Noninvasive ventilation on the intensive care unit: from novel application to end of life issues

Chairs: R. Scala (Arezzo, Italy), A. Cuvelier (Rouen, France)

- 14:45 Noninvasive mechanical ventilation in patients with acute respiratory failure due to H1N1 infection  
E. Tonveronachi, I. Valentini, A. Fabiani, R. Vaschetto, A. Pigna, R. Maviglia, G. Sangiorgi, M. Gorini, M. Adversi, G. Di Nino, S. Faenza, M. Antonelli, P. Navalesi, S. Nava (Bologna, Novara, Rome, Florence, Italy) 2968
- 15:00 NIV and influenza A H1N1 pneumonia  
A. Nicolini, M. Santo, M. Bonfiglio, A. Carrassi (Sestri Levante, Lavagna, Bari, Italy) 2969
- 15:15 Non-invasive ventilation with neurally adjusted ventilatory assist improves patient-ventilator interaction  
M. Dres, M. Schmidt, M. Raux, T. Similowski, A. Demoule (Paris, France) 2970
- 15:30 Prevention of extubation failure in high-risk neuromuscular disease patients  
L. Paladini, G. Arcaro, F. Gallan, M. R. Marchi, F. Braccioni, M. Chizzolini, A. Donà, A. Vianello (Padova, Italy) 2971
- 15:45 Do patients sleep under noninvasive ventilation (NIV) in the intensive care unit (ICU)?  
A. Cordoba Izquierdo, X. Drouot, A. W. Thille, F. Galia, L. Brochard (Créteil, France; Geneva, Switzerland) 2972
- 16:00 Ethical issues in idiopathic pulmonary fibrosis with acute respiratory failure (IPF-ARF): An Italian survey  
R. Scala, S. Nava, A. Corrado, M. Confalonieri, N. Facciolo (Lucca, Bologna, Florence, Trieste, Reggio Emilia, Italy) 2973
- 16:15 Are inpatients with COPD requiring treatment with NIV receiving adequate palliative care at the end of their life?  
W. Kent, S. Zaidi, T. Bongers (Southport, United Kingdom) 2974



## EMERALD

## SESSION 326

14:45 - 16:45

**Oral Presentation: Chest physiotherapy and breathing retraining****Chairs: D. Langer (Leuven, Belgium), M. Thomas (Gloucester, United Kingdom)**

- 14:45 Keynote lecture: Introduction "Chest physiotherapy and breathing retraining"  
R. Garrod (London, United Kingdom) 2975
- 15:00 Does manual therapy provide additional benefit to breathing retraining in the management of dysfunctional breathing? A randomised controlled trial  
M. Jones, F. Troup, J. Nugus, M. Roughton, M. Hodson, C. Rayner, F. Bowen, J. Pryor (London, United Kingdom) 2976
- 15:15 Efficacy of airway clearance therapy with different autonomy degrees in nonCF-BE: Randomized cross-over trial  
B. Herrero, E. Polverino, D. Martí Romeu, J. Vilaró (Barcelona, Mallorca, Spain) 2977
- 15:30 Nebulised 7% hypertonic saline improves health related quality of life in patients with non-cystic fibrosis bronchiectasis  
R. Johnston, F. Shaw, R. Wilson, M. Loebinger, L. Flude (London, United Kingdom) 2978
- 15:45 Comparison in the efficacy of mobilization and active cycle of breathing technique in coronary artery bypass graft surgery  
H. Arikian, H. N. Turan, B. Degirmenci, S. Savci, M. Saglam, D. Inal-Ince, N. Vardar-Yagli, E. Calik, M. Bosnak-Guclu, M. Demircin (Ankara, Izmir, Türkiye, Turkey) 2979
- 16:00 Addition of PEEP/EPAP during nocturnal noninvasive ventilation in patients with severe restrictive disorders: Physiological effects and tolerance in a randomized pilot study  
M. Goncalves, J. Moreira, L. Souto Barros, P. Dantas, J. C. Winck (Porto, Portugal) 2980
- 16:15 Influence of the interface on the use of positive expiratory pressure (PEP) device  
G. Reyhler, T. Coppens, J. Roeseler, P. Delguste, G. Liistro (Brussels, Belgium) 2981
- 16:30 Comparison of two physiotherapeutic methods in bronchiectasis: Active cycle breathing technique (ACBT) and oscillating physiotherapy device  
H. R. Khoddami Vishteh, F. Ghorbani, M. Masoudnia, S. Mahmoudian, S. Shafaghi, K. Najafizadeh (Tehran, Islamic Republic of Iran) 2982

## ROOM D203-204

## SESSION 327

14:45 - 16:45

**Oral Presentation: Novel clinical features of acute and chronic lung diseases****Chairs: D. Olivieri (Parma, Italy), P. Camus (Dijon, France)**

- 14:45 Prevalance of pulmonary hypertension in chronic myeloproliferative diseases  
E. Kiyan, G. Okumus, G. Kuran, B. Pamukcu, H. Göksoy, A. Kiyan, S. Yavuz, Z. Bugra, O. Arseven (Istanbul, Bolu, Turkey) 2983
- 15:00 Adipokines and bone loss at the terminal stage of chronic respiratory failure  
E. Kochetrova, L. Ugay, K. Burya, R. Kessler (Vladivostok, Russian Federation; Strasbourg, France) 2984
- 15:15 Bronchoalveolar interleukin-1 beta: A marker of bacterial burden in children with community-acquired pneumonia (CAP)  
D. Dmytriiev, K. Dmytriieva, K. Dmytriiev, O. Katilov, A. Staradub (Vinnitsa, Ukraine) 2985
- 15:30 Features of lung damage in adult patients with severe influenza A (H1N1)  
O. Titova, D. Larin, V. Volchkov (Saint-Petersburg, Russian Federation) 2986
- 15:45 Specialist palliative care is more than drugs – A retrospective study of ILD patients  
S. Bajwah, I. J. Higginson, J. Ross, A. U. Wells, S. S. Birring, A. Patel, J. Riley (London, United Kingdom) 2987
- 16:00 Community-acquired pneumonia in pediatric patients with connective tissue disorders: Manifestations and clinical course  
Z. Nesterenko, O. Ivanina (Lugansk, Ukraine) 2988
- 16:15 Clinical features of a new hypersensitivity pneumonitis: Salami brusher's disease  
L. Balzarini, C. Mancini, P. Mouzakiti, M. Marvisi (Cremona, Italy) 2989

## ROOM G102-103

## SESSION 328

14:45 - 16:45

**Poster Discussion: Measuring physical activity and exercise performance in chronic lung disease: implications for rehabilitation****Chairs: M. Morgan (Leicester, United Kingdom), M. Sillen (Horn, The Netherlands)**

- P2990 Predicting peak cycle work rate from the incremental shuttle walk test in COPD  
R. Zainuldin, M. Mackey, N. Luxton, J. Alison (Sydney, Fremantle, Australia)
- P2991 Predicting peak cycle work rate from the six-minute walk test in COPD  
R. Zainuldin, M. Mackey, N. Luxton, J. Alison (Sydney, Fremantle, Australia)
- P2992 Prognostic variables for the incremental shuttle walking test in patients with COPD  
N. de Voogd, J. Wempe, G. Maters, E. van Sonderen, R. Sanderman (Groningen, The Netherlands)
- P2993 Does breathlessness and leg discomfort indicate different exercise limiting mechanisms in COPD?  
M. Groenendijk, D. van Ranst, H. Otten, A. vant Hul (Breda, Amsterdam, The Netherlands)

## MONDAY SEPTEMBER 26

- P2994 The minimal important difference in treadmill endurance test in COPD patients after a comprehensive pulmonary rehabilitation program (PRP)  
B. Manzano, J. Marchioro, J. Barreto, O. Nascimento, J. Jardim (São Paulo, Brazil)
- P2995 Predictors of six-minute walk distance at baseline and after three years in COPD patients  
R. Ferrari, S. Tanni, L. Caram, C. Corrêa, C. Corrêa, L. Coelho, I. Godoy (Botucatu, Brazil)
- P2996 The influence of O<sub>2</sub> on exercise capacity (6-minute-walking-distance, 6MWD) in COPD  
I. Heinzelmann, A. Jerrentrup, C. Vogelmeier, K. Kenn (Schoenau am Koenigssee, Marburg, Germany)
- P2997 Are the benefits of pulmonary rehabilitation sustained after 6 months?  
L. Zainudin, P. Albert, V. Ford, P. Calverley (Liverpool, United Kingdom)
- P2998 Comparison of the Duke Activity Status index and the incremental Shuttle walk test in COPD  
K. Wagg, J. Williams, S. Singh (Leicester, Coventry, United Kingdom)
- P2999 Relation between daily physical activity and exercise capacity in patients with COPD  
M. Zwerink, J. van der Palen, M. Brusse-Keizer, P. van der Valk, T. Effing (Enschede, The Netherlands; Daw Park, Australia)
- P3000 Can we change the activity behaviour of COPD patients using a telemedicine feedback intervention?  
M. Tabak, M. Vollenbroek-Hutten, P. van der Valk, J. van der Palen, H. Hermens (Enschede, The Netherlands)
- P3001 Long-term impact of exercise adherence in COPD  
A. Graz, J. Podestá, M. Sivori, M. de Almeida, C. Saenz (Buenos Aires, Argentina)
- P3002 Slow and fast walking time in daily physical activities in stable patients with COPD  
A. Kawagoshi, S. Miura, M. Ikeda, N. Kiyokawa, K. Sugawara, H. Takahashi, M. Homma, S. Sakata, M. Satake, T. Shioya (Akita City, Mashiki Town, Japan)
- P3003 Activity monitoring in pulmonary rehabilitation in patients with COPD  
J. Varga, K. Aranyász, A. Somfay (Deszk, Hungary)
- P3004 Activity in contemporary healthy people and COPD  
V. Tudorache, C. Oancea, N. Bertici, M. Marc, O. F. Mladinescu, E. Tudorache, C. Avram, A. Somesan (Timisoara, Romania)
- P3005 Does resistance training improve physical activity in patients with COPD?  
L. Houchen, M. Menon, S. Harrison, C. Sandland, M. Morgan, M. Steiner, S. Singh (Leicester, Coventry, United Kingdom)
- P3006 Stanford Seven-Day Physical Activity Recall questionnaire as a screening tool for physical inactivity in chronic obstructive pulmonary disease  
B. Garfield, J. Canavan, C. Smith, K. Ingram, R. Fowler, A. Clark, M. Polkey, W. Man (London, United Kingdom)
- P3007 Hypoxia induces differential acute and chronic adaptations in regulation of skeletal muscle protein turnover  
C. C. de Theije, R. J. C. Langen, A. M. W. J. Schols, W. H. Lamers, S. E. Köhler (Maastricht, The Netherlands)

ROOM G104-105

SESSION 329

14:45 - 16:45

## Poster Discussion: Role of infection in exacerbations of COPD

Chairs: T. Wilkinson (Southampton, United Kingdom), S. Sethi (Buffalo, United States of America)

- P3008 Human metapneumovirus involved in acute exacerbations in COPD patients?  
M. Vanspauwen, F. Franssen, C. Bruggeman, E. Wouters, C. Linssen (Maastricht, Horn, The Netherlands)
- P3009 Amoxicillin concentrations in sputum in relation to betalactamase activity in COPD patients  
R. van der Zanden, P. van der Valk, R. Hendrix, J. van der Palen, K. Movig, M. Brusse-Keizer (Maastricht, Enschede, The Netherlands)
- P3010 Clinical and economical impact of exacerbations of chronic obstructive pulmonary disease (COPD): A two-year study  
F. Blasi, C. Fornari, F. Di Stasi, S. Conti, L. G. Mantovani, L. Merlino, S. Aliberti, G. Cesana (Milan, Monza, Naples, Italy)
- P3011 Safety and pharmacokinetics of multiple-dose ciprofloxacin dry powder for inhalation in patients with moderate or severe COPD  
H. Stass, P. Badorrek, J. Hohlfeld, N. Krug, J. Nagelschmitz, T. Welte (Wuppertal, Hannover, Germany)
- P3012 Does presence of multiple viruses in the stable state predispose COPD patients to exacerbations?  
M. Vanspauwen, F. Franssen, C. Bruggeman, E. Wouters, C. Linssen (Maastricht, Horn, The Netherlands)
- P3013 The relationship between PBMC secretion of IFN-alpha following TLR7 and TLR9 activation and lung function in COPD  
V. Mistry, M. Bafadhel, S. McKenna, S. Terry, C. Brightling (Leicester, United Kingdom)
- P3014 Bacterial load in chronic obstructive pulmonary disease and its relationship with airway inflammation and lung function  
M. Pancholi, M. Bafadhel, S. McKenna, S. Terry, V. Mistry, C. Newby, I. Pavord, C. Brightling (Leicester, United Kingdom)
- P3015 Induction of cathelicidin (LL-37) in rhinovirus-induced COPD exacerbations  
R. Sotero, P. Mallia, J. Footitt, M. B. Trujillo-Torralbo, T. Keadze, C. Marco, A. Papi, G. Pelaia, R. Maselli, S. Johnston (London, United Kingdom; Catanzaro, Ferrara, Italy)

- P3016 Exacerbation frequency is related to PEF self-similarity in COPD  
G. Donaldson, T. Seemungal, J. Hurst, J. Wedzicha (London, United Kingdom; St. Augustine, Trinidad And Tobago)
- P3017 The role of respiratory virus infection in COPD exacerbations  
X. Pomares, S. Capilla, C. Montón, D. Mariscal, M. A. Marcos, M. Espasa, E. Monsó, M. Gallego (Sabadell, Barcelona, Spain)
- P3018 Presence of *pneumocystis jiroveci* colonization in patients with COPD  
M. Vanspauwen, F. Franssen, C. Bruggeman, E. Wouters, C. Linssen (Maastricht, Horn, The Netherlands)
- P3019 Microbiological efficacy of combined use of vaccines against *S. pneumoniae*, *H. influenzae* type B in patients with a COPD  
A. Protasov, A. Zhestkov, M. Kostinov, A. Ryzhov (Samara, Moscow, Russian Federation)
- P3020 Etiology pathogens structure in community-acquired pneumonias and COPD exacerbations  
A. Martynova, E. Nosuch, A. Sheparyov (Vladivostok, Russian Federation)
- P3021 Characteristic of cytokines levels of blood and sputum in COPD exacerbation  
S. Nesterovich, E. Bukreeva (Tomsk, Russian Federation)
- P3022 Bronchial brush-biopsies cells in dependence on infectious agent species at COPD exacerbation  
S. Nesterovich, E. Bukreeva (Tomsk, Russian Federation)
- P3023 Modification of cell mediated immune-response in patients treated with a polyvalent mechanical bacterial lysate  
F. Braidò, E. Traggiai, G. Lanzilli, G. Bazorro, C. Folli, V. Garelli, A. M. Riccio, G. Melioli (Genoa, Rome, Italy)
- P3024 Role of endothelial dysfunction, disturbance of haemostatic reactions in pathogenesis of acute exacerbation of chronic obstructive pulmonary disease (AE COPD)  
I. Y. Tseimakh, A. P. Momot, G. I. Kostjuchenko, T. A. Kornilova, I. P. Kramar, J. A. Filonova, A. G. Chuchalin (Barnaul, Moscow, Russian Federation)
- P3025 Invasive pulmonary aspergillosis in patients with severe COPD. Comparative study between probable invasive infection and colonization  
R. Blavia, A. Flor, I. Serra, M. Morta, D. Estivill, R. Trullas, D. Perich, E. Martin, C. Perez, E. Marquilles (Manresa, Spain)

ROOM G106-107

SESSION 330

14:45 - 16:45

**Poster Discussion: Quality control in lung function and exercise-related issues****Chairs: I. Steenbruggen (Zwolle, The Netherlands), W. Tomalak (Rabka, Poland)**

- P3026 Over-reading spirometry – Man or machine?  
A. Harrison, G. Sowman, H. KaurNagra (Wallingford, Maids Moreton, United Kingdom)
- P3027 Predicting success in implementing a distance quality improvement intervention for asthma  
J. Stout, C. Hsu, K. Smith, R. Mangione-Smith (Seattle, United States of America)
- P3028 Spirometry 360 on-line training and feedback: Spring 2011 course results and future plans  
J. Stout, K. Smith, B. Culver, A. Dozor (Seattle, Valhalla, United States of America)
- P3029 Stature measurement: Potential for improved interpretation of pulmonary function  
S. Bendixen Holm, C. Skjolvang Andersen, C. Borup, F. Madsen (Helsingør, Denmark)
- P3030 Spirometry quality in patients with COPD  
L. Fernandes, A. Mesquita (Panaji, India)
- P3031 Quality of spirometry in the elderly  
M. Czajkowska-Malinowska, W. Tomalak, J. Radlinski (Bydgoszcz, Rabka, Poland)
- P3032 Number of tests and the time needed to fulfil the quality criteria for plethysmographic measurements  
D. Ionita, C. Stroescu, G. Weiss, I. Stoicescu, M. Burecu, C. Nita, A. Croitoru, D. Dospinoiu, F. Cojocar, I. Strambu (Bucharest, Romania)
- P3033 The use of biological control subjects to validate exercise testing with supplemental oxygen  
K. De Soomer, K. Leemans, H. Vaerenberg, W. De Backer, E. Oostveen (Antwerp, Belgium)
- P3034 Novel strategies for quality control of forced spirometry  
F. Burgos, B. Galdiz, C. Gallego, M. Vallverdú, P. Caminal, D. Castillo, J. Ayza, J. Escarrabill, J. Roca (Barcelona, Bilbao, Mataró, Spain)
- P3035 Preoperative determinants of the length of hospital stay in patients undergoing surgery for pancreatic cancer  
R. Carter, O. Aileen, V. V. Chandrabalan, J. Kinsella (Glasgow, United Kingdom)
- P3036 Is there a difference between the results of the standard six minutes walking test (S6MWT) and the test with ventilation monitoring (V6MWT)?  
C. C. Stroescu (Cocian), A. Croitoru, D. Ionita (Bucharest, Romania)
- P3037 Flow limitation at rest may identify a phenotype of chronic obstructive pulmonary disease (COPD)  
L. Malagrino, F. Costa, B. Vagaggini, C. De Simone, C. Spanu, A. Celi, P. Paggiaro (Pisa, Italy)
- P3038 Ventilatory exercise response at low altitude  
J. Sinkeldam, G. Commandeur, H. Groepenhoff (Amsterdam, The Netherlands)
- P3039 Cardio pulmonary exercise testing: Mouthpiece or a mask? Does it matter?  
J. Sinkeldam, P. E. Postmus, A. Boonstra, H. Groepenhoff (Amsterdam, The Netherlands)
- P3040 Is measuring ventilation during the six minutes walking test (6MWT) important?  
C. C. Stroescu (Cocian), A. Croitoru, D. Ionita (Bucharest, Romania)

MONDAY  
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## MONDAY SEPTEMBER 26

- P3041 Reference values for the incremental shuttle walking test  
V. S. Probst, N. A. Hernandez, D. C. Teixeira, J. M. Felcar, C. G. Gonçalves, D. Hayashi, R. B. Mesquita, S. Singh, F. Pitta (Londrina, Brazil; Leicester, United Kingdom)
- P3042 Reference value of six-minute walking distance in healthy Pakistani subjects  
S. Haque, N. Rao, M. Irfan, A. Zubairi (Karachi, Pakistan)
- P3043 Pulse oximeter validation study  
G. Johal, J. Hunt, B. Cooper (Birmingham, United Kingdom)

SLEEP

ROOM E104-106

SESSION 331

14:45 - 16:45

## Poster Discussion: Obstructive sleep apnoea: inflammation and metabolism

Chairs: W. McNicholas (Dublin, Ireland), J. Montserrat (Barcelona, Spain)

- P3044 Markers of liver dysfunction in patients with obstructive sleep apnea  
M. Buttacavoli, A. M. Marotta, A. Castrogiovanni, C. Giordano, V. Bellia, M. R. Bonsignore (Palermo, Italy)
- P3045 The circadian profile of melatonin secretion in patients with OSAS  
M. Barnas, R. Chazan (Warsaw, Poland)
- P3046 Albuminuria in children with obstructive sleep apnea  
V. Varlami, E. Alexopoulos, G. Malakasioti, V. Theologi, E. Theophanous, A. Kaditis, E. Daskalopoulou, K. Gourgoulanis (Larissa, Thessaloniki, Greece)
- P3047 Biochemical basis of inflammation in children with obstructive sleep apnea syndrome (OSAS) and in children with obesity  
M. Evangelisti, A. C. Massolo, F. Ianniello, M. C. Paolino, M. Montesano, S. Miano, M. Forlani, M. P. Villa (Rome, Italy)
- P3048 Expression of cysteinyl leukotriene receptors in tonsillar T and B lymphocytes of children with obstructive sleep apnea  
L. Lianou, M. Tsaoussoglou, S. Hatzinikolaou, E. Theodorou, Z. Antonopoulou, E. Houlakis, M. Tsakanikos, P. Panaghiotopoulou-Gartagani, A. Kaditis, G. Chrousos (Athens, Greece)
- P3049 Effect of intermittent hypoxia on the expression of fatty acid binding proteins in human adipocytes and macrophages  
J. C. W. Mak, Q. Han, S. C. Yeung, M. S. M. Ip (Hong Kong, Hong Kong)
- P3050 Predictors of obstructive sleep apnea syndrome and metabolic syndrome  
R. Dacal Quintas, M. Tumbreiro Novoa, M. T. Alves Pérez, M. G. Cortez Montero, M. L. Santalla Martínez, P. Marcos Velázquez (Ourense, Spain)
- P3051 Sleep apnea symptoms in diabetics and their first degree relatives  
B. Amera, F. Sheikh Bahae, M. Amini, M. Golshan, I. Fietze, T. Penzel (Isfahan, Islamic Republic of Iran; Berlin, Germany)
- P3052 How can identified early presence of atherosclerotic plaque in severe OSAS?  
R. Bossi, C. Carnevale, R. Meazza (Milan, Italy)
- P3053 Sleep-disordered breathing and metabolic dysregulation in obese children before and after weight loss  
K. Van Hoorenbeeck, H. Franckx, L. Van Gaal, K. Desager, W. De Backer, S. Verhulst (Antwerp, De Haan, Belgium)
- P3054 The impact of sleep apnea on glucose metabolism. Results from a long-time follow-up  
E. Lindberg, J. Theorell-Haglöw, M. Svensson, T. Gislason, C. Berne, C. Janson (Uppsala, Sweden; Reykjavik, Iceland)
- P3055 Coronary plaque distribution and endothelial dysfunction in younger obstructive sleep apnea patients  
H. Vrints, B. Shivalkar, K. Kluppels, O. M. Vanderveken, E. Hamans, P. Van de Heyning, W. De Backer, C. Vrints, J. Verbraecken (Wilrijk, Belgium)
- P3056 The reflection of low serum testosterone level on body composition in severe obstructive sleep apnea (OSA) patients  
R. M. Bercea, E. Cojocaru, T. Mihaescu (Iasi, Romania)
- P3057 Endothelial dysfunction in patients with obstructive sleep apnea  
M. Elshazly, A. Farag, A. Zakaria (Cairo, Egypt)
- P3058 A hospital based study of sleep in metabolic syndrome between obese & non obese North Indians  
D. Chaudhry, I. Sehgal, C. Tandon, V. Sangwan (Rohtak, India)
- P3059 OSAS and oxidative stress before and after CPAP therapy  
M. Brunori, F. S. Pignataro, R. Pierro, G. Onelli (Rome, Italy)
- P3060 Is substance P (SP) involved in sleep physiology and behavioural characteristics in children with obstructive sleep apnea-hypopnea syndrome during sleep (OSAHS)?  
A. Sakellaropoulou, M. Hatzistilianou, M. Emporiadou, V. Aivazis, F. Athanasiadou Piperopoulou (Thessaloniki, Greece)
- P3061 Circadian rhythms of melatonin, cortisol and cytokines in pediatric obstructive sleep apnea syndrome  
V. Milan, M. Gaiazzi, A. Luce, R. Maio, F. Marino, M. Cosentino, L. Nosetti, L. Nespoli (Varese, Italy)

ROOM E102

SESSION 332

14:45 - 16:45

## Poster Discussion: Improving outcomes after lung transplantation

Chairs: M. Iversen (Copenhagen, Denmark), F. Meloni (Pavia, Italy)

- P3062 Cytomegalovirus (CMV) infection – Correlation between CMV-DNA PCR in bronchoalveolar lavage (BAL), CMV pp65 antigen load in PBMCs and clinical symptoms in lung transplant recipients  
U. Sommerwerck, T. Rabis, O. Anhenn, G. Weinreich, M. Kamler, N. Pizanis, H. Jakob, H. Teschler, U. Costabel (Essen, Germany)

- P3063 Vitamin D deficiency in lung transplant patients: Is it important?  
S. Verleden, R. Vos, S. Devleeschauwer, A. Vaneylen, L. Dupont, G. Verleden, D. Vanraemdonck, B. Vanaudenaerde (Leuven, Belgium)
- P3064 Association between CT and spirometric changes in azithromycin treatment of chronic lung allograft dysfunction  
R. Vos, P. de Jong, S. Verleden, D. Van Raemdonck, L. Dupont, W. De Wever, J. Verschakelen, G. Verleden (Leuven, Belgium; Utrecht, The Netherlands)
- P3065 CT findings before and after azithromycin treatment of chronic lung allograft dysfunction  
R. Vos, P. de Jong, B. Vanaudenaerde, S. Verleden, D. Van Raemdonck, L. Dupont, W. De Wever, J. Verschakelen, G. Verleden (Leuven, Belgium; Utrecht, The Netherlands)
- P3066 Montelukast as a rescue therapy for bronchiolitis obliterans syndrome (BOS) after lung transplantation  
J. Gottlieb, H. Suhling, J. Rademacher, T. Fuehner, T. Welte (Hannover, Germany)
- P3067 Bronchial carcinoma after lung transplantation, a sobering truth  
J. Yserbyt, L. Dupont, D. Van Raemdonck, C. Doooms, G. Verleden (Leuven, Belgium)
- P3068 12 month follow-up of lung recipients with chronic allograft dysfunction treated with extracorporeal photopheresis (ECP)  
N. Solari, V. Conio, T. Oggionni, C. Del Fante, C. Perotti, G. Viarengo, M. Morosini, S. Miserere, F. Meloni (Pavia, Italy)
- P3069 Inhaled tobramycin for the prevention of airway stenosis after lung transplantation: A pilot study  
L. Yarmus, A. Shah, C. Merlo, J. Orens, D. Feller-Kopman, J. McDyer (Baltimore, United States of America)
- P3070 Does single lung transplantation actually alleviate the donor pool?  
A. Olland, N. Santelmo, P. E. Falcoz, C. Cantrelle, R. Dorent, G. Massard (Strasbourg, Saint Denis la Plaine, France)
- P3071 Recipient dependent factors for outcome in a twinned single lung transplantation model  
A. Olland, N. Santelmo, B. Orsini, P. E. Falcoz, C. Cantrelle, R. Dorent, P. Thomas, G. Massard (Strasbourg, Marseille, Saint Denis la Plaine, France)
- P3072 Hyper expanded native lung treated with intra bronchial valves in single lung transplant recipients  
M. Perch, E. Andersen, C. Jensen, J. Mortensen, M. Iversen (Copenhagen, Denmark)
- P3073 The use of a murine model of brain death for mechanistic studies on treatment for donor lung injury  
S. Wauters, L. Lopopolo, E. Verbeke, C. Meers, J. van Loon, G. Verleden, D. Van Raemdonck (Leuven, Belgium)
- P3074 Determinant factors for bronchial ischemia after lung transplantation  
A. Olland, N. Santelmo, P. E. Falcoz, G. Massard (Strasbourg, France)
- P3075 Transbronchial lung biopsy after lung transplantation: Different A and B scores in different lobes  
P. Jaksch, A. Scheed, S. Geleff, G. Dekan, W. Klepetko (Vienna, Austria)
- P3076 Long term outcome of lung recipients bridged with extracorporeal devices  
F. Meloni, C. Pellegrini, M. Belliato, M. Zanierato, A. Cascina, T. Oggionni, A. D'Armini, G. Iotti, A. Braschi (Pavia, Italy)
- P3077 Management of total cicatricial stenoses of a trachea by replacement of trachea produced by technologies of the regenerative medicine  
V. Parshin, P. Macchiarini, M. Vyjigina, M. Rusakov, D. Bazarov, H. Zaklyazminskaya (Moscow, Russian Federation; Stockholm, Sweden)
- P3078 Benefit of pulmonary rehabilitation in candidates for lung transplantation  
M. G. Dierich, T. Fuehner, T. Welte, G. Warnecke, J. Gottlieb (Hannover, Germany)
- P3079 H1N1 influenza in lung transplant patients: A follow up after one year  
H. Seethamraju, B. Akkanti, A. Parulekar, G. Dronavalli, M. Loebe, S. LaFrancesca, G. Noon, K. Chmielowiec, P. Kolodziejski (Houston, United States of America)

ROOM D201-202

SESSION 333

14:45 - 16:45

**Poster Discussion: Epithelial cell biology****Chairs: D. Davies (Southampton, United Kingdom), C. Greene (Dublin, Ireland)**

- P3080 The bronchial epithelium promotes B cell survival and immunoglobulin production in a coculture system  
M. Z. Ladjemi, B. Detry, Y. Sibille, C. Pilette (Brussels, Yvoir, Belgium)
- P3081 DUOX1-mediated hydrogen peroxide release regulates sodium transport in bronchiolar epithelial cells  
V. Shlyonsky, M. Virreira, F. Mies, A. Goolaerts, R. Naeije, R. Beauwens, A. Boom (Brussels, Belgium)
- P3082 Increased expression of  $\alpha$ 1-hydroxylase (CYP27B1) in IL-13-exposed primary bronchial epithelial cells (PBEC): Consequences for activation of vitamin D and expression of the antimicrobial peptide hCAP-18/LL-37  
J. A. Schrupf, R. M. Verhoosel, M. A. J. A. Sterkenburg, S. Zuyderduyn, P. S. Hiemstra (Leiden, The Netherlands)
- P3084 Epithelial mesenchymal interactions in asthmatic children  
E. Bazzan, E. Mutti, A. Ballarin, S. Zagallo, G. Turato, S. Baraldo, M. Damin, D. Snjiders, S. Bugin, F. Calabrese, P. Maestrelli, A. Barbato, M. Saetta (Padova, Italy)
- P3085 Increased expression of IL-19 in metaplastic epithelium of patients with chronic rhinosinusitis and nasal polyps  
E. Pace, V. Scafidi, D. Di Bona, L. Siena, G. Chiappara, M. Ferraro, S. La Grutta, S. Gallina, R. Speciale, A. Ballacchino, C. Bachert, J. Bousquet, M. Gjornakaj (Palermo, Italy; Ghent, Belgium; Montpellier, France)
- P3086 Increased epithelial production of LPLUNC1 in cystic fibrosis lung disease  
C. Bingle, K. Wilson, M. Mall, D. Rassl, L. Bingle (Sheffield, Cambridge, United Kingdom; Heidelberg, Germany)

## MONDAY SEPTEMBER 26

- P3087 Co-expression of LPLUNC1 and MUC5B in the bronchiolarized epithelium of usual interstitial pneumonia  
B. Araujo, L. Bingle, S. Howie, W. Wallace, N. Hirani, C. Bingle (Sheffield, Edinburgh, United Kingdom)
- P3088 LSC 2011 Abstract: Differential inflammatory responses of nasal and bronchial epithelial cells to cigarette smoke extract  
D. Comer, V. Brown, F. De Courcey, S. Elborn, M. Ennis (Belfast, United Kingdom)
- P3089 Cigarette smoke alters the expression of the pro-inflammatory LTB4 receptor and increases the neutrophil adhesion in bronchial epithelial cells  
E. Pace, M. Ferraro, A. Giarratano, S. Sciarrino, M. Gjomarkaj (Palermo, Italy)
- P3090 Oxidative stress induces the generation of tissue factor bearing microparticles by airway epithelial cells in vitro  
C. Noce, T. Neri, F. Novelli, C. Cordazzo, S. Petrini, Y. Carmazzi, L. Tavanti, P. Paggiaro, A. Celi (Pisa, Italy)
- P3091 Effect of cigarette smoke on proteasome function in alveolar epithelial cells  
S. van Rijt, A. Mossina, O. Eickelberg, S. Meiners (Munich, Germany)
- P3092 Variations in organic cation transporter (OCT) expression in bronchial epithelial cell layers after environmental insults  
M. Mukherjee, D. I. Pritchard, C. Bosquillon (Nottingham, United Kingdom)
- P3093 Human 3D airway models to explore *in vivo* inhalation  
A. Reus, Y. Staal, J. van Triel, F. van Acker, F. Kuper (Zeist, The Netherlands)
- P3094 Cigarette smoke induces the release of CXCL-8 from human bronchial epithelial cells via TLRs and the induction of inflammasome  
E. Mortaz, P. Henricks, A. Kraneveld, M. Givi, J. Garssen, G. Folkerts (Utrecht, Wageningen, The Netherlands; Tehran, Islamic Republic of Iran)
- P3095 Effect of roflumilast N-oxide on non-typable *haemophilus influenzae* (NTHi) interaction with human airway epithelial A549 cells  
V. Cano, P. Morey, J. Garmendia, J. Bengoechea (Bunyola, Mutilva Baja, Spain)
- P3096 Glucocorticoids enhance CCL20 release in bronchial epithelial cells in a metalloprotease-dependent manner  
J. Zijlstra, D. Rozeveld, N. ten Hacken, A. van Oosterhout, I. Heijink (Groningen, The Netherlands)
- P3097 Effects of JAK-STAT inhibitors on glucocorticosteroid resistant release of CXCR3 chemokines from human bronchial epithelial cells  
P. Fenwick, I. Kilty, M. Yeadon, P. Barnes, L. Donnelly (London, Sandwich, United Kingdom)

## AUDITORIUM

## SESSION 334

17:15 - 19:15

**Evening Symposium: Asthma and COPD management: real world experience put into practice***Organised by AstraZeneca***Chairs: D. S. Postma (Groningen, The Netherlands), P. M. A. Calverley (Liverpool, United Kingdom)**

- 17:15 Introduction  
D. S. Postma (Groningen, The Netherlands), P. M. A. Calverley (Liverpool, United Kingdom) 3098
- 17:20 Are we making progress in the management of COPD?  
P. M. A. Calverley (Liverpool, United Kingdom) 3099
- 17:40 Switching from fixed combination therapy to mono components: a step forward or a step back?  
U. Bjornsdottir (Reykjavik, Iceland) 3100
- 18:00 Respiratory device technology from a clinical perspective  
H. Frijlink (Groningen, The Netherlands), P. Demoly (Montpellier, France) 3101
- 18:35 A change in management from FEV<sub>1</sub> to symptom control, what does this mean in clinical practice?  
D. S. Postma (Groningen, The Netherlands) 3102
- 18:55 Summary  
D. S. Postma (Groningen, The Netherlands) 3103
- 19:00 Q&A and close  
D. S. Postma (Groningen, The Netherlands), P. M. A. Calverley (Liverpool, United Kingdom), U. Bjornsdottir (Reykjavik, Iceland), H. Frijlink (Groningen, The Netherlands), P. Demoly (Montpellier, France) 3104

## ELICIUM 2

## SESSION 335

17:15 - 19:15

**Evening Symposium: An integrated approach to COPD: treating the patient, managing the disease***Organised by Novartis Pharma AG***Chair: M. Rudolf (Middlesex, United Kingdom)**

- 17:15 Chair's introduction  
M. Rudolf (Middlesex, United Kingdom) 3105
- 17:20 Breathlessness in COPD: impact on daily life  
C. Jenkins (Sydney, Australia) 3106
- 17:45 How can we improve on pharmacological treatments for COPD?  
N. Roche (Paris, France) 3107

18:05	COPD treatment: comparative effects of once-daily indacaterol in improving patient outcomes K.M. Beeh (Wiesbaden, Germany)	3108
18:35	The future of COPD management: matching treatment to the disease A. D'Urzo (Toronto, Canada)	3109
18:55	Q&A M. Rudolf (Middlesex, United Kingdom)	3110
19:10	Chair's summary and close M. Rudolf (Middlesex, United Kingdom)	3111

*The presentations may contain information on products or indications currently under investigation and that have not been approved. Only approved products may be prescribed, in accordance with their approved label. Indications may vary from country to country. Physicians should refer to their local Prescribing Information.*

## ROOM 5.1

## SESSION 336

17:15 - 19:15

### Evening Symposium: Acclidinium bromide, a new treatment option in COPD. Improving bronchodilation, symptoms and patients' outcomes

*Organised by Almirall*

**Chair: A. Agusti (Barcelona, Spain)**

17:15	Introduction A. Agusti (Barcelona, Spain)	3112
17:25	Why do we need a new long-acting muscarinic antagonist for the treatment of COPD? S. Rennard (Omaha, United States of America)	3113
17:45	How can a new multidose dry powder inhaler improve patient outcomes? – The Genuair® inhaler C. Niederlaender (Bad Homburg, Germany)	3114
18:00	Acclidinium bromide: a new long-acting muscarinic antagonist, effect on lung function B. R. Celli (Boston, United States of America)	3115
18:25	What is the impact of new therapies on health status? P. Jones (London, United Kingdom)	3116
18:50	Q&A, panel discussion A. Agusti (Barcelona, Spain), S. Rennard (Omaha, United States of America), B. R. Celli (Boston, United States of America), P. Jones (London, United Kingdom), C. Niederlaender (Bad Homburg, Germany)	3117
19:05	Chairman's summary and close A. Agusti (Barcelona, Spain)	3118

## ROOM 4.1

## SESSION 337

17:15 - 19:15

### Evening Symposium: Anticholinergics in asthma: A new way forward?

*Organised by Boehringer Ingelheim/Pfizer*

**Chair: E. D. Bateman (Cape Town, South Africa)**

17:15	Anticholinergics in asthma: what's the evidence? E. D. Bateman (Cape Town, South Africa)	3119
17:30	The cholinergic system: what is it and does it play a role in asthma? P. J. Barnes (London, United Kingdom)	3120
18:05	The potential of long-acting anticholinergic bronchodilators in the treatment of asthma E. D. Bateman (Cape Town, South Africa)	3121
18:30	Tiotropium add-on therapy in patients with inadequately controlled asthma: results from the TALC trial E. R. Bleeker (Winston-Salem, United States of America)	3122
19:00	Moderated Q&A E. D. Bateman (Cape Town, South Africa)	3123

## ELICIUM 1

## SESSION 338

17:15 - 19:15

### Evening Symposium: Asthma in 2011: new ways to improve your outcomes

*Organised by MSD*

**Chairs: S. Holgate (Southampton, United Kingdom), E. F. M. Wouters (Maastricht, The Netherlands)**

17:15	Welcome remarks E. F. M. Wouters (Maastricht, The Netherlands)	3124
17:20	Introduction S. Holgate (Southampton, United Kingdom)	3125
17:25	Enhancing compliance: applying a 21st century science for achieving asthma control J. Lotvall (Gothenburg, Sweden)	3126

## MONDAY SEPTEMBER 26

17:50	Utilising over thirty years of airway inflammation research to individualise my asthma care S. Holgate (Southampton, United Kingdom)	3127
18:15	How emerging real world data changes my asthma management D. Price (Aberdeen, United Kingdom), J. C. Virchow (Rostock, Germany)	3128
19:00	Panel discussion/Q&A S. Holgate (Southampton, United Kingdom), E. F. M. Wouters (Maastricht, The Netherlands), J. Lotvall (Gothenburg, Sweden), D. Price (Aberdeen, United Kingdom), J. C. Virchow (Rostock, Germany)	3129

## FORUM

## SESSION 339

17:15 - 19:15

**Evening Symposium: Bronchiectasis management: verging on a breakthrough? Join the debate***Organised by Bayer HealthCare Pharmaceuticals***Chair: F. J. Martinez (Ann Arbor, United States of America)**

17:15	Introduction F. J. Martinez (Ann Arbor, United States of America)	3130
17:25	Bacteria in chronic lung disease: colonisation or infection? J. Govan (Edinburgh, United Kingdom)	3131
17:50	Antibiotics to prevent exacerbations of bronchiectasis: what is the evidence? R. Wilson (London, United Kingdom)	3132
18:15	Is bronchiectasis a good model for COPD studies? M. Miravittles (Barcelona, Spain)	3133
18:40	A breakthrough for bronchiectasis - a hope for COPD? Panel discussion F. J. Martinez (Ann Arbor, United States of America), J. Govan (Edinburgh, United Kingdom), R. Wilson (London, United Kingdom), M. Miravittles (Barcelona, Spain)	3134

## ROOM 5.2

## SESSION 340

17:15 - 19:15

**Evening Symposium: Small airways – BIG impact***Organised by Nycomed GmbH***Chair: L. M. Fabbri (Modena, Italy)**

17:15	Introduction L. M. Fabbri (Modena, Italy)	3135
17:25	Pathology and assessment of small airway inflammation in asthma L. Bjermer (Lund, Sweden)	3136
17:55	How to reach further into the lung periphery O. Usmani (London, United Kingdom)	3137
18:25	Clinical implications and treatment of small airway inflammation R. Dahl (Aarhus, Denmark)	3138
18:55	Audience Q&A L. M. Fabbri (Modena, Italy)	3139

## ROOM 3.1

## SESSION 341

17:15 - 19:15

**Evening Symposium: Idiopathic Pulmonary Fibrosis: Evolutions in diagnosis and treatment***Organised by Boehringer Ingelheim GmbH***Chair: R. M. du Bois (London, United Kingdom)**

17:15	Chair's introduction R. M. du Bois (London, United Kingdom)	3140
17:25	The pathogenesis of IPF A. Guenther (Giessen, Germany)	3141
17:45	Overcoming diagnostic challenges V. Cottin (Lyon, France)	3142
18:05	Living and dying with IPF H. Collard (San Francisco, United States of America)	3143
18:20	Evolving treatment options for IPF L. Richeldi (Modena, Italy)	3144
18:40	Panel Q&A session R. M. du Bois (London, United Kingdom)	3145
19:10	Chair's wrap-up R. M. du Bois (London, United Kingdom)	3146



## ROOM 3.2

## SESSION 342

17:15 - 19:15

**Evening Symposium: How can registries improve our comprehension of rare diseases: the example of pulmonary hypertension***Organised by GlaxoSmithKline***Chairs: G. Simonneau (Clamart, France), A. Peacock (Glasgow, United Kingdom)**

17:15	Input from the British and Irish registries A. Peacock (Glasgow, United Kingdom)	3147
17:40	What could be learn from the Spanish registry P. Escribano (Madrid, Spain)	3148
18:05	The REVEAL registry: data from US PAH centers R. Benza (Pittsburgh , United States of America)	3149
18:30	Reflecting on lessons from the PH registries G. Simonneau (Clamart, France)	3150
18:55	Panel Discussion G. Simonneau (Clamart, France), A. Peacock (Glasgow, United Kingdom), P. Escribano (Madrid, Spain), R. Benza (Pittsburgh , United States of America)	3151

## ROOM 4.2

## SESSION 343

17:15 - 19:15

**Evening Symposium: Pulmonary Hypertension: new targets, new goals, new therapies***Organised by Bayer HealthCare Pharmaceuticals***Chairs: M. Humbert (Clamart, France), M. M. Hoeper (Hannover, Germany)**

17:15	Introduction: where are we now? M. Humbert (Clamart, France)	3152
17:30	New goals: frequent re-evaluation for a personal disease S. Ghio (Pavia , Italy)	3153
17:50	New science: therapies beyond vasodilation R. Schermuly (Giessen, Germany)	3154
18:10	New techniques: advances in monitoring individual treatment response L. Zhao (London, United Kingdom)	3155
18:30	New therapies: advances in targeting A. Waxman (Boston, United States of America)	3156
18:50	Discussion M. Humbert (Clamart, France), M. M. Hoeper (Hannover, Germany)	3157
19:05	Closing comments M. M. Hoeper (Hannover, Germany)	3158

## EMERALD

## SESSION 344

17:15 - 19:15

**Evening Symposium: AATD and COPD – Variation of a theme - An interactive discussion***Organised by Grifols (formerly Talecris Biotherapeutics GmbH)***Chair: R. Stockley (Birmingham, United Kingdom)**

17:15	AATD and COPD: historical and clinical overlap R. Sandhaus (Miami, United States of America)	3159
17:40	Disease characterisation: similarities and differences J. Soriano (Bunyola, Spain), R. Buhl (Mainz, Germany)	3160
18:20	Outcomes measures for potential emphysema-modifying therapies W. MacNee (Edinburgh, United Kingdom), D. Parr (Leamington Spa, Warwickshire, United Kingdom)	3161
19:00	eALTA: Results from the 2010 winning projects A. Ordoñez (Cambridge, United Kingdom), S. Pelz (Halle, Germany)	3162
19:10	eALTA: Introduction of the 2011 winning projects S. Ottaviani (Pavia, Italy), K. Hurley (Dublin, Ireland)	3163

## TUESDAY SEPTEMBER 27

ROOM G109

SESSION 347

07:00 - 08:15

**Morning Seminar: Assessing efficiency of mechanical ventilation: secrets of success****Chair: A. Simonds (London, United Kingdom)**

07:00	Introduction from the Chair A. Simonds (London, United Kingdom)	3168
07:10	How to make sure my acute patient is optimally ventilated S. Nava (Bologna, Italy)	3169
07:35	How to assess the efficacy of long-term mechanical ventilation: what to measure and when? J-L. Pépin (Grenoble, France)	3170
08:00	Discussion	

ROOM G110

SESSION 348

07:00 - 08:15

**Morning Seminar: Interpreting high-resolution computed tomography scans: top tips****Chairs: C. Vancheri (Catania, Italy), W. De Wever (Leuven, Belgium)**

07:00	Introduction by the Chairs C. Vancheri (Catania, Italy), D. De Wener (Leuven, Belgium)	3172
07:10	Bronchial and bronchiolar disorders M. Pistolesi (Florence, Italy)	3173
07:35	Interstitial lung diseases D. Hansell (London, United Kingdom)	3174
08:00	Discussion	

ROOM 7.1

SESSION 351

08:30 - 10:30

**Session: Clinical Year in Review I**

**Aims:** This session will offer the possibility to review four topics of paramount interest for clinicians and fellows in training. This will highlight the new and emerging clinical concepts in the management of respiratory related diseases and conditions.

Suggested references:

«Advances in rehabilitation and the acute exacerbation»

- Man WD, Polkey MI, Donaldson N, et al. Community pulmonary rehabilitation after hospitalisation for acute exacerbations of chronic obstructive pulmonary disease. *BMJ* 2004; 20: 1209-1214.

- Clini EM, Crisafulli E, Costi S, et al. Effects of early inpatient rehabilitation after acute exacerbation of COPD. *Respir Medicine* 2009; 103: 1526-1531.

- Troosters T, Probst VS, Crul T, et al. Resistance training prevents deterioration in quadriceps muscle function during acute exacerbations of chronic obstructive pulmonary disease. *Am J Respir Crit Care Med* 2010; 181: 1072-1077.

- Puhan M, Scharplatz M, Troosters T, et al. Pulmonary rehabilitation following exacerbations of chronic obstructive pulmonary disease. *Cochrane Database Syst Rev* 2009; 1: CD005305.

«Thoracic malignancies»

- Annema JT, van Meerbeeck JP, Rintoul RC, et al. Mediastinoscopy vs endosonography for mediastinal nodal staging of lung cancer: a randomized trial. *JAMA* 2010; 304: 2245-2252.

- Travis WD, Brambilla E, Noguchi M, et al. International association for the study of lung cancer/American Thoracic Society/European Respiratory Society international multidisciplinary classification of lung adenocarcinoma. *J Thorac Oncol* 2011; 6: 244-285.

- Zhu CQ, Ding K, Strumpf D, et al. Prognostic and predictive gene signature for adjuvant chemotherapy in resected non-small-cell lung cancer. *J Clin Oncol* 2010; 28: 4417-4424.

- Scherpereel A, Berghmans T, Lafitte JJ, et al. Valproate-doxorubicin: promising therapy for progressing mesothelioma. A phase II study. *Eur Respir J* 2011; 37: 129-135.

«Advances in lung transplantation»:

- De Oliveira NC, Osaki S, Maloney JD, et al. Lung transplantation with donation after cardiac death donors: long-term follow-up in a single centre. *J Thorac Cardiovasc Surg* 2010; 139: 1306-1315.

- Arnoutakis GJ, Allen JG, Merlo CA, et al. Impact of the lung allocation score on resource utilization after lung transplantation. *J Heart Lung Transplant* 2011; 30: 14-21.

- Haneya A, Phillipp A, Mueller T, et al. Extracorporeal circulatory systems as a bridge to lung transplantation at remote transplant centers. *Ann Thorac Surg* 2011; 91: 250-255.

- Sato M, Waddell TK, Wagnetz U, et al. Restrictive allograft syndrome (RAS): a novel form of allograft dysfunction. *J Heart Lung Transplant* 2011; 30: 735-742.

**Target audience:** Clinicians, surgeons, allied health professionals involved in patient care, and trainees.

**Chairs: D. Bouros (Alexandroupolis, Greece), C. Strange (Charleston, United States of America)**

08:30	Advances in rehabilitation and the acute exacerbation E. Clini (Modena, Italy)	3176
09:00	Thoracic malignancies J-P. Sculier (Brussels, Belgium)	3177

09:30	Advances in interstitial lung diseases K. Flaherty (Ann Arbour, United States of America)	3178
10:00	Advances in lung transplantation A. Boehler (Zurich, Switzerland)	3179

## PHYSIOLOGY

## AUDITORIUM

## SESSION 352

08:30 - 10:30

**Hot Topic: New dimensions in respiratory clinics**  
**Peter Macklem memorial symposium**

**Aims:** After this session the audience will:

- have a better understanding of what constitutes health and disease;
- know the importance of fractiles and temporal dynamics in health and disease;
- understand the different pathophysiological dimensions of asthma and COPD;
- have knowledge of future developments in diagnosis, phenotyping and treatment of asthma and COPD.

This session is dedicated to the memory of Peter Macklem.

**Target audience:** Pulmonologists, paediatricians, basic scientists, physiologists, pathologists and geneticists.

**Chairs:** E. Bel (Amsterdam, The Netherlands), P. J. Sterk (Amsterdam, The Netherlands)

08:30	Peter Macklem homage M. Decramer, ERS President 2011 (Leuven, Belgium)	3180
08:40	The fundamentals of health and disease J. Fredberg (Boston, United States of America)	3181
09:08	Disease phenotyping using the swings of disease U. Frey (Basel, Switzerland)	3182
09:36	Five dimensions of airway disease J. Hogg (Vancouver, Canada)	3183
10:03	Promises of modern physiology for the patient C. Brightling (Leicester, United Kingdom)	3184

## INFECTION

## ROOM 7.2

## SESSION 353

08:30 - 10:30

**Symposium: Chronic bronchial infection: more than a syndrome**

**Aims:** The aims of this symposium are to:

- identify the characteristics of the syndrome of chronic bronchial infection (CBI);
- learn the risk factors for CBI and the microorganisms most frequently implicated;
- and gain some insight into the new clinical trials of inhaled and oral antibiotics for treatment of CBI in bronchiectasis, cystic fibrosis (CF) and COPD.

**Target audience:** Clinicians, scientists, respiratory physiotherapists and microbiologists.

**Chairs:** T. Welte (Hannover, Germany), A. Anzueto (San Antonio, United States of America)

08:30	Concept and impact of the syndrome of chronic bronchial infection M. Miravittles (Barcelona, Spain)	3185
09:00	Suppressive antimicrobial therapy in chronic bronchial infection: the example of cystic fibrosis D. Bilton (London, United Kingdom)	3186
09:30	Strategies to control chronic bronchial infection in non-CF bronchiectasis E. Polverino (Barcelona, Spain)	3187
10:00	Choosing the right antimicrobial, route of administration and dosage for chronic bronchial infection S. Sethi (Buffalo, United States of America)	3188

## INTENSIVE CARE

## ELICIUM 2

## SESSION 354

08:30 - 10:30

**Symposium: The times they are a-changing: how noninvasive ventilation changed our practice**

**Aims:** Noninvasive ventilation (NIV) has a broad-spectrum of indications for treatment of acute patients. The session aims to describe the well established and novel fields of application for NIV.

**Target audience:** Intensive care unit physicians, pneumologists and respiratory physiotherapists.

**Chairs:** N. Hill (Providence, United States of America), A. Carlucci (Milan, Italy)

08:30	NIV to prevent intensive care unit admission M. W. Elliott (Leeds, United Kingdom)	3189
09:00	NIV to prevent intensive care unit infections A. Torres (Barcelona, Spain)	3190
09:30	NIV to prevent post-operative complications S. Jaber (Montpellier, France)	3191
10:00	NIV to prevent prolonged intubation P. Navalesi (Vercelli, Italy)	3192

## TUESDAY SEPTEMBER 27

## BASIC

ROOM 5.1

SESSION 355

08:30 - 10:30

**Symposium: Adenosine and purigenic signalling in inflammatory lung disease****Aims:** At the end of the session the audience will understand:

- that endogenously released ATP and adenosine are important regulators of the immune system;
  - the complexity of P2 and adenosine receptor signalling in lung physiology;
  - that specific P2R/adenosine receptor subtypes play a key role in the pathogenesis of inflammatory lung diseases;
  - that ATP contributes to chronicity of inflammatory lung diseases and airway remodelling;
  - that targeting specific P2R/adenosine receptors is a new therapeutic approach for the treatment of chronic inflammatory lung diseases, such as COPD, lung fibrosis and severe asthma.
- Target audience:** Clinicians, scientists, pharmacologists, pulmonary and research fellows and the pharmaceutical industry.

**Chairs:** J. C. Virchow (Rostock, Germany), C. Page (London, United Kingdom)

08:30	Introductory talk: pharmacology of adenosine and purinergic signalling G. Folkerts (Utrecht, The Netherlands)	3193
09:00	Adenosine signalling in asthma and COPD R. Polosa (Catania, Italy)	3194
09:30	P2 receptor signalling in asthma and COPD M. Idzko (Freiburg, Germany)	3195
10:00	Adenosine/P2R signalling in lung fibrosis M. Blackburn (Houston, United States of America)	3196

## ONCOLOGY

ROOM 4.1

SESSION 356

08:30 - 10:30

**Symposium: Slow-growing lung cancer****Aims:** The audience will get a feeling for the problems associated with small nodules and screening, and discuss how to handle this common clinical problem.**Target audience:** Clinicians, surgeons, biologists and pathologists.**Chairs:** E. Quoix (Strasbourg, France), R. M. Huber (Munich, Germany)

08:30	Indolent lung cancers G. Hillerdal (Stockholm, Sweden)	3197
09:00	Lung nodule: differential diagnosis R. Van Klaveren (Rotterdam, The Netherlands)	3198
09:30	The role of FDG-PET-CTscan T. Berghmans (Brussels, Belgium)	3199
10:00	To treat or not to treat: an important question M. Infante (Milan, Italy)	3200

ELICIUM 1

SESSION 357

08:30 - 10:30

**Oral Presentation: Pulmonary infections and sepsis****Chairs:** J.-D. Chiche (Paris, France), J. Pugin (Geneva, Switzerland)

08:30	Late-breaking abstract: Effects of oleanolic acid on pulmonary morphofunctional and biochemical variables in experimental sepsis R. Santos, P. Silva, G. Oliveira, F. Cruz, M. Ramos, E. Assis, H. Faria-Neto, C. Gattass, P. Rocco (Rio de Janeiro, Brazil)	3201
08:45	Inflammatory biomarkers in predicting ICU admission of severe community-acquired pneumonia (CAP) M. Ferrer, P. Ramirez, V. Marti, S. Reyes, R. Martinez, R. Menendez, S. Ewig, A. Torres (Barcelona, Valencia, Spain; Bochum, Germany)	3202
09:00	Reduction of the systemic inflammatory response in patients with CAP treated with corticosteroids improves clinical outcome and reduces mortality and ICU admittance H. Remmelts, S. Meijvis, G. Rijkers, H. van Velzen-Blad, P. Voorn, J. Grutters, W. J. Bos, D. Biesma (Nieuwegein, Utrecht, The Netherlands)	3203
09:15	Impact of bronchoalveolar lavage (BAL) multiplex PCR with DNA macrocip based diagnosis on outcomes of severe pneumonia in ICU M. Sircar, R. Kaur, R. Gupta, P. Ranjan, R. Tangri, A. Gupta, R. Caroli, N. Chavhan, A. Joshi Bhatt, S. Naaz, V. Taneja, S. Kumar, M. Singh (Noida, India)	3204
09:30	Hyaluronan infusion improves survival in endotoxemic rats W. I. Choi, H. Charles (Daegu, Republic of Korea; Boston, United States of America)	3205
09:45	Multi organ failure in severe sepsis patients followed at intensive care unit: Risk factors Z. Karakurt, O. Yazicioglu Mocin, E. Oz, N. Adiguzel, G. Gungor, O. Devran, M. Kalamanoğlu Balci, A. Yilmaz (Istanbul, Turkey)	3206
10:00	Prediction of clinical severity and outcome of ventilator-associated pneumonia in a tertiary hospital using the VAP PIRO scoring system R. Panaligan, C. Chavez, M. Panaligan (Manila, Philippines)	3207

- 10:15 De-escalation therapy in ventilator acquired pneumonia (VAP)  
A. Khoury, H. Al-Nasser, F. Al-Hamad, H. Hannan (Aleppo, Syrian Arab Republic) 3208

## FORUM

## SESSION 358

08:30 - 10:30

## Oral Presentation: E-learning

Chairs: P. L. Haslam (London, United Kingdom), A. Jung (Davos, Switzerland)

- 08:30 Usage patterns and feedback of online E-learning modules for "Common Trunk" trainees in medicine  
J. Busuttill, M. Balzan (B'kara, Malta) 3209
- 08:45 A questionnaire study of available sources of information regarding medical conditions and access rate in patients attending chest clinics in a district general hospital (DGH) in the United Kingdom  
S. Selvaraj, C. Sondai, G. Cooper, T. Naicker, K. Srinivasan, H. Moudgil (Telford, Keele, United Kingdom) 3210
- 09:00 FeNO interpretation aid: A clinical decision support tool for interpretation of FeNO values in the patients with respiratory symptoms  
T. Jacinto, K. Alving, E. Burnay, A. Sá-Sousa, R. Correia, J. Fonseca (Porto, Portugal; Uppsala, Sweden) 3211
- 09:15 Education of patients with sleep apnea syndrome: Feasibility of a phone coaching procedure  
A. Didier, L. Leseux, K. Sedkaoui, S. Pontier, L. Adrover, J. L. Fraysse (Toulouse, Labège, France) 3212
- 09:30 PHD, the electronic patient's hayfever diary  
U. E. Berger, S. Jäger, K. C. Bergmann (Vienna, Austria; Berlin, Germany) 3213
- 09:45 Internet-based self-management (IBSM) in asthma, from evidence to practice: A qualitative study of barriers and facilitators for implementation  
J. L. van Gaalen, J. B. Snoeck-Stroband, L. Vos, M. J. Bakker, A. A. Kaptein, W. J. J. Assendelft, L. N. A. Willems, B. P. A. Thoonen, J. K. Sont, The IMPASSE (IMplementation Strategies of Internet-Based Asthma Self-Management Support in Usual care) Study Group (Leiden, Nijmegen, The Netherlands) 3214

## ROOM 5.2

## SESSION 359

08:30 - 10:30

## Oral Presentation: Important new developments in paediatric respiratory physiology

Chairs: P. Aurora (London, United Kingdom), E. Lombardi (Florence, Italy)

- 08:30 Keynote lecture: "Task Force update - Infant and preschool lung function"  
P. Robinson (London, United Kingdom) 3215
- 08:45 Micron-sized particle deposition in the developing rodent lung  
H. Schulz, G. Eder, I. Bolle, A. Tsuda, S. Karrasch (Neuherberg/Munich, Munich, Germany; Boston, United States of America) 3216
- 09:00 Newborn airway compliance is correlated with amniotic fluid soluble leukocyte-associated Ig-like receptor-1 (LAIR-1)  
M. Houben, M. Olde Nordkamp, K. Vd Ent, J. Kimpen, L. Meyaard, L. Bont (Utrecht, The Netherlands) 3217
- 09:15 Elicitability of defensive reflexes within the breathing cycle  
S. Varechova, B. Demoulin, M. Poussel, C. Schweitzer, B. Chenuel, A. L. Leblanc, F. Marchal (Vandoeuvre-les-Nancy, France) 3218
- 09:30 Increased fetal growth protects against early wheeze, airway hyper-responsiveness (AHR) and current asthma in early mid-childhood: Results from the Raine birth cohort  
G. Hall, L. Chen, W. Ang, C. Pennell, J. Newnham, P. Sly (Perth, Brisbane, Australia) 3219
- 09:45 Nonuniform growth in pediatric lung function between 4 and 9 years of age  
E. Oostveen, S. Dom, M. Hagendorens, E. Dierckx, W. De Backer, J. Weyler (Antwerp, Belgium) 3220
- 10:00 Multicentre feasibility and variability of measuring the lung clearance index in healthy volunteers  
S. Fuchs, H. Ellemunter, J. Eder, U. Mellies, J. Grosse-Onnebrink, B. Tümmler, D. Staab, A. Jobst, M. Griesse, J. Ripper, E. Rietschel, S. Zeidler, F. Ahrens (Wesel, Essen, Hannover, Berlin, Munich, Cologne, Hamburg, Germany; Innsbruck, Austria) 3221
- 10:15 Area under the reactance curve: Reference ranges and bronchodilator response (BDR) in healthy children  
S. J. Simpson, C. Calogero, M. Palumbo, J. Park, P. Franklin, E. Lombardi, P. D. Sly, G. L. Hall (Perth, Brisbane, Australia; Florence, Viterbo, Italy) 3222

## ROOM 3.1

## SESSION 360

08:30 - 10:30

## Oral Presentation: New insights in the incidence, variation and risk factors of asthma

Chairs: P. Burney (London, United Kingdom), I. Annesi-Maesano (Paris, France)

- 08:30 Late-breaking abstract: Association of asthma with IgE to staphylococcal enterotoxins in a GA<sup>2</sup>LEN population based case-control study  
P. Tomassen, C. Bachert, P. Burney, D. Jarvis, on behalf of the GA<sup>2</sup>LEN Survey Follow-Up working group (Ghent, Belgium; London, United Kingdom) 3223

## TUESDAY SEPTEMBER 27

08:45	Asthma incidence in a national sample of Canadian adolescents J. Lawson, I. Janssen, A. Hossain, M. Bruner, W. Pickett (Saskatoon, Kingston, North Bay, Canada)	3224
09:00	Temporal patterns of wheeze during the school ages in a population-based cohort A. Bjerg, L. Hedman, S. Sundberg, M. Andersson, E. Rönmark (Luleå, Sweden)	3225
09:15	Seasonal variations in asthma attacks and grass sensitisation C. Canova, P. Burney, D. Jarvis, on behalf of the European Community Respiratory Health Survey I (London, United Kingdom)	3226
09:30	Initiation of controller medication in newly diagnosed asthma patients: Impact on economic resource utilization P. Bedouch, M. Sadatsafavi, J. M. FitzGerald, C. Marra, L. Lynd (Vancouver, Canada)	3227
09:45	A longitudinal study investigating factors associated with changes in lung function over time in early life (age 3 to 11) D. Belgrave, L. Lowe, A. Simpson, A. Custovic (Manchester, United Kingdom)	3228
10:00	Transforming growth factor beta-1 gene polymorphisms and course of asthma D. Ierodiakonou, D. S. Postma, G. H. Koppelman, J. Gerritsen, W. Timens, H. M. Boezen, J. M. Vonk (Groningen, The Netherlands)	3229
10:15	A nested case-control study of serum 25-hydroxyvitamin D levels and risk of adult-onset asthma – The HUNT study X. M. Mai, A. Langhammer, C. A. Camargo, Jr., Y. Chen (Trondheim, Norway; Boston, United States of America; Ottawa, Canada)	3230

## ROOM 3.2

## SESSION 361

08:30 - 10:30

**Oral Presentation: Growth factors and fibrogenesis: are they good, bad or both?****Chairs: M. Kolb (Hamilton, Canada), B. Crestani (Paris, France)**

08:30	The role of TNF-related apoptosis inducing ligand (TRAIL) in fibrotic lung disease E. McGrath, H. Marriott, A. Lawrie, S. Cross, P. Mercer, P. Hellewell, R. Chambers, D. Dockrell, M. Whyte (Sheffield, London, United Kingdom)	3231
08:45	CCR6 is a receptor for CCL18 expressed on human lung fibroblasts from IPF lungs G. Zissel, K. Höhne, A. Kilic, C. Maier, T. Ploenes, A. Prasse, M. Trepel, H. Eibel, J. Müller-Quernheim (Freiburg, Heidelberg, Hamburg, Germany)	3232
09:00	Involvement of the Hedgehog signalling pathway in idiopathic pulmonary fibrosis N. Cigna, E. Farrokhi Moshai, M. S. Joëlle, L. Stervinou-Wêmeau, D. Monique, P. Soler, B. Crestani, A. Mailleux (Paris, France)	3233
09:15	Heat Shock Protein 27 modulate mesothelial and epithelial to mesenchymal transition (EMT) G. Wettstein, P. S. Bellaye, M. Gleave, M. Kolb, C. Garrido, P. Camus, P. Bonniaud (Dijon, France; Vancouver, Hamilton, Canada)	3234
09:30	Long-term effect of hepatocyte growth factor in the normal lung: A stereological assessment A. Leuenberger, L. Knudsen, A. Gazdhar, T. Geiser, M. Ochs (Bern, Switzerland; Hannover, Germany)	3235
09:45	HGF expressing stem cells in the human fibrotic lung originate from the bone marrow N. Susuri, A. Gazdhar, M. Gugger, T. Geiser (Bern, Switzerland)	3236

## ROOM 4.2

## SESSION 362

08:30 - 10:30

**Oral Presentation: Obstructive sleep apnoea in children and adults****Chairs: A. Kaditis (Piraeus, Greece), R. L. Riha (Edinburgh, United Kingdom)**

08:30	Late-breaking abstract: Cardiac function in a revascularized coronary artery disease cohort with obstructive sleep apnoea with and without daytime sleepiness in the RICCADSA trial Y. Peker, H. Glantz, E. Thunstrom, B. Cederin, J. Herlitz, J. Ejdeback (Skovde & Lidkoping, Gothenburg, Sweden)	3237
08:45	Feasibility of implanted upper airway nerve stimulation therapy to treat obstructive sleep apnea W. De Backer, J. Verbraecken, J. Maurer, L. Knaack, A. Oliven (Edegem, Belgium; Mannheim, Dortmund, Germany; Haifa, Israel)	3238
09:00	Twelve months follow-up in children with obstructive sleep apnea syndrome (OSAS) after adenotonsillectomy or orthodontic treatment with rapid maxillary expander R. Castaldo, M. C. Paolino, F. Ianniello, D. D'Onofrio, A. Tabarrini, M. Montesano, M. Cecili, M. P. Villa (Rome, Italy)	3239
09:15	Oxidative stress in children with OSAS: Role of urinary 8-isoprostane S. Bonafoni, S. Fedeli, V. Negro, M. C. Supino, M. C. Paolino, R. Castaldo, M. Cecili, M. Simmaco, M. P. Villa (Rome, Italy)	3240
09:30	Prevalence of sleep disordered breathing in middle-aged general population: The HypnoLaus study R. Heinzer, D. Andries, F. Bastardot, N. Tobback, P. Vollenweider, M. Tafti, J. Haba-Rubio (Lausanne, Switzerland)	3241
09:45	Morbidity prior and after a diagnosis of sleep disordered breathing. A controlled national study P. Jennum, J. Kjellberg (Copenhagen, Denmark)	3242

- 10:00 Longterm follow-up of severe obstructive sleep apnea-hypopnea syndrome and prediction of systemic arterial hypertension  
S. M. Frent, D. Lighezan, V. Tudorache, C. Ardelean, D. Dimitriu, S. Mihaicuta (Timisoara, Romania) 3243
- 10:15 cPAP compliance and survival in elderly and sleep apnoea patients  
R. Alonso Moralejo, S. de la Torre Carazo, T. Diaz Cambriles, J. Muñoz Mendez, M. J. Diaz de Atauri, A. Lopez Encuentra (Madrid, Spain) 3244

## EMERALD

## SESSION 363

08:30 - 10:30

**Oral Presentation: Sleep and weight: heavy under pressure****Chairs: B. G. Cooper (Birmingham, United Kingdom), J. Lloyd (Staffordshire, United Kingdom)**

- 08:30 Can the Epworth sleepiness score predict the apnoea-hypopnoea index in obstructive sleep apnoea and hypopnoea syndrome: A comparative audit of patient and partner scoring  
C. Hughes (Gloucester, United Kingdom) 3245
- 08:45 Berlin questionnaire and Epworth sleepiness scale, useful screening instruments for obstructive sleep apnea syndrome?  
A. Mensink, S. Uil, B. Kuipers (Zwolle, The Netherlands) 3246
- 09:00 Randomized trial of 6 auto-adapting CPAP devices  
S. Neale, F. Buchanan, N. Allaouat, J. R. Catterall, A. H. Kendrick (Bristol, United Kingdom) 3247
- 09:15 Randomized trial of 6 auto-adapting CPAP devices: Effects on quality of life  
S. Neale, F. Buchanan, N. Allaouat, J. R. Catterall, A. H. Kendrick (Bristol, United Kingdom) 3248
- 09:30 Transcutaneous measurement of pCO<sub>2</sub> (p<sub>tc</sub>CO<sub>2</sub>): Time delay from change in alveolar pCO<sub>2</sub> to first response in p<sub>tc</sub>CO<sub>2</sub>  
N. H. Holmedahl, J. A. Hardie, O. Fondenes, I. Ellingsen (Hakadal, Bergen, Norway) 3249
- 09:45 The effect of early use of continuous positive airway pressure (CPAP) therapy to treat acute atelectasis after cardiac surgery: Randomized study  
F. Al Mutairi, S. Fallows, E. Mason-Whitehead, W. Abukhudair, B. Islam (Chester, United Kingdom; Jeddah, Saudi Arabia) 3250
- 10:00 Impact of weight on anaerobic threshold (AT) values in preoperative assessment  
B. Howard, J. Fuld, R. Parker, J. Colbourne, K. Sylvester (Cambridge, United Kingdom) 3251

## ROOM D203-204

## SESSION 364

08:30 - 10:30

**Oral Presentation: Physical activity monitors: from toy to valid tool?****Chairs: M. Emtner (Uppsala, Sweden), F. Pitta (Londrina, Brazil)**

- 08:30 Keynote lecture: Introduction "Physical activity monitors: from toy to valid tool?"  
H. Watz (Grosshansdorf, Germany) 3252
- 08:45 Validity of 6 activity monitors during standard physical activities in COPD – Comparison with indirect calorimetry  
H. Van Remoortel, Y. Raste, D. Langer, C. Burtin, Z. Louvaris, S. Giavedoni, F. Costa, F. Wilson, R. Rabinovich, N. Hopkinson, I. Vogiatzis, B. Peterson, T. Troosters (London, Edinburgh, Sandwich, United Kingdom; Leuven, Belgium; Athens, Greece; Pisa, Italy; Groton, United States of America) 3253
- 09:00 User acceptability of 6 activity monitors in COPD; part of the PROactive project  
E. Regueiro, S. Donaldson, Z. Louvaris, C. Burtin, Y. Raste, I. Vogiatzis, N. S. Hopkinson, D. Langer, R. Rabinovich, F. Dobbels, B. Peterson, F. Wilson, T. Troosters, The PROactive Investigators (Leuven, Brussels, Belgium; Sao Carlos, Brazil; Edinburgh, London, Sandwich, United Kingdom; Athens, Greece; Groton, United States of America) 3254
- 09:15 Accuracy of three activity monitors in patients with COPD – Validation by video  
M. Andersson, C. Urell, M. Emtner (Uppsala, Sweden) 3255
- 09:30 Energy expenditure during daily activities as measured by two motion sensors in patients with COPD  
C. A. Camillo, V. Cavalheri, L. Donária, T. Ferreira, M. Finatti, E. M. Cipulo Ramos, F. Pitta (Londrina, Presidente Prudente, Brazil) 3256
- 09:45 Dyspnoea and fat free mass are major determinants of reduced physical activity in COPD patients  
F. Costa, G. De Cusatis, L. Malagrino, S. Antonelli, C. De Simone, S. Santerini, B. Vagaggini, P. Paggiaro (Pisa, Italy) 3257
- 10:00 Smoking, exercise capacity and physical activity in daily life in physically independent elderly  
C. G. Gonçalves, D. Hayashi, C. L. Gonçalves, D. C. Teixeira, E. R. F. S. Freitas, J. M. Felcar, V. S. Probst (Londrina, Brazil) 3258
- 10:15 Activity outcomes correlation of 6 monitors in COPD, a field study part of the PROactive project  
S. Giavedoni, R. Rabinovich, Y. Raste, N. Hopkinson, H. Van Remoortel, E. M. Gatti Regueiro, D. Langer, Z. Louvaris, I. Vogiatzis, B. Peterson, F. Wilson, T. Troosters (Edinburgh, London, Sandwich, Kent, United Kingdom; Leuven, Belgium; Sao Carlos, Brazil; Athens, Greece) 3259

## TUESDAY SEPTEMBER 27

ROOM G102-103

SESSION 365

08:30 - 10:30

**Poster Discussion: Asthma: basic science and clinical studies****Chairs: C. Taube (Mainz, Germany), M. Gjomarkaj (Palermo, Italy)**

- P3260 Increased sputum IL-17 and neutrophils in asthmatic patients after climbing to extreme altitude  
S. Seys, M. Daenen, L. Dupont (Leuven, Genk, Belgium)
- P3261 Assessment of airway neutrophil activation in adult non-eosinophilic asthma  
C. Brooks, C. van Dalen, E. Harding, I. Hermans, J. Douwes (Wellington, New Zealand)
- P3262 Implication of interleukin-18 in airway remodelling in refractory asthma  
N. Rovina, P. Bakakos, E. Dima, G. Hillas, E. Tselioli, K. Kontogianni, C. Roussos, S. Papiris, M. Alchanatis, S. Loukides (Athens, Greece)
- P3263 Effect of adenosine receptors stimulation on generation of CD1a<sup>low</sup>CD14<sup>+</sup>CD209<sup>+</sup> cells in patients with bronchial asthma  
K. Yuryeva, S. Ryzhov, J. Yakovleva, E. Korotkaya, K. Goremykin, E. Kulikov, A. Sazonov (Tomsk, Russian Federation; Nashville, United States of America)
- P3264 Role of target-cells sensitivity to corticosteroids in cold bronchial hyperresponsiveness development  
J. M. Perelman, A. B. Pirogov, E. V. Ushakova, X. Zhou, Q. Li, V. P. Kolosov (Blagoveschensk, Russian Federation; Chongqing, China)
- P3265 LSC 2011 Abstract: Effect of inhaled apocynin on reactive oxygen species concentrations in exhaled breath condensate of asthmatics  
J. Stefanska, A. Sarniak, A. Wlodarczyk, M. Sokolowska, Z. Doniec, D. Nowak, R. Pawliczak (Lodz, Rabka, Poland)
- P3266 Quantitative proteomics on bronchial biopsies from asthma and COPD: Effects of budesonide treatment  
S. O'Neil, B. Sitkauskienė, A. Babusyte, A. Krisiukienė, K. Stravinskaite-Bieksienė, R. Sakalauskas, C. Sihlbom, L. Ekerljung, E. Carlsohn, B. Lundbäck, J. Lötvald (Gothenburg, Sweden; Kaunas, Lithuania)
- P3267 The interplay of LXA4 and glucocorticoid receptor-based mechanisms in airway inflammation of childhood asthma  
R. Gagliardo, S. La Grutta, P. Chanez, A. Sala, L. Siena, C. Di Sano, L. Riccobono, G. Viegli, M. Gjomarkaj, M. Profita (Palermo, Milano, Italy; Marseille, France)
- P3268 LSC 2011 Abstract: An expression survey of toll-like receptors (TLRs) and nod-like receptors (NLRs) in allergic asthma  
S. Sagar, K. A. T. Verheijden, A. D. Kraneveld, N. Georgiou, G. Folkerts, J. Garssen (Utrecht, Wageningen, The Netherlands)
- P3269 Mesenchymal stem cells down-regulate inflammation but not airway hyperresponsiveness in experimental asthma  
L. A. Mariñas-Pardo, I. Mirones-Aguilar, O. Amor-Carro, R. Fraga-Iriso, B. Lema-Costa, I. Cubillo-Moreno, M. A. Rodríguez-Milla, J. García-Castro, D. Ramos-Barbón (A Coruña, Madrid, Barcelona, Spain)
- P3270 Aerobic exercise reduces allergic airway inflammation and remodeling by deactivating airway epithelial cells and leukocytes  
R. Paula Vieira, R. Aparecido Silva, A. Choqueta Toledo, A. Batista Gomes Santos, M. Arruda Martins, M. Dolhnikoff, C. Ricardo Fernandes Carvalho (Freiburg, Germany; São Paulo, Brazil)
- P3271 Upregulated expression of interleukin-33 and alternative activation of macrophages in a model of an acute exacerbation of asthma  
R. Kumar, M. Scott, R. Keogh, C. Herbert, J. Siegle, N. Tedla (Sydney, Australia)
- P3272 Naturally occurring CD4<sup>+</sup> CD25<sup>+</sup> FoxP3<sup>+</sup> Treg cells are related to the absence of antigen induced airway obstruction in a guinea pig asthma model  
P. Ramos-Ramírez, O. Tellez-Jimenez, E. Martinez-Cordero, E. Garcia-Zepeda, F. Gutierrez-Aguilar, B. Bazan-Perkins (Mexico City, Mexico)
- P3273 Overproduction of IL-18 in the lungs induces IL-13 and IFN- $\gamma$  producing CD4<sup>+</sup> T cell in the lungs, and results in airway hyperresponsiveness in Balb/c mice  
M. Sawada, T. Hoshino, Y. Sakazaki, H. Oda, S. Takenaka, T. Kinoshita, H. Imaoka, T. Kawayama, H. Aizawa (Kurume, Japan)
- P3274 The role of bone-marrow derived adult stem cells in asthmatic airway remodeling  
H. F. Ou-Yang, C. G. Wu (Xi'an, China)
- P3275 Efficient gene transduction of adipose tissue-derived mesenchymal stem cells (MSCs) for asthma research  
L. A. Mariñas-Pardo, O. Amor-Carro, L. Núñez-Naveira, B. Lema-Costa, J. García-Castro, D. Ramos-Barbón (A Coruña, Madrid, Barcelona, Spain)
- P3276 Analysis of P2Y<sub>12</sub> receptor responsiveness to cysteinyl leukotrienes  
H. Foster, E. Stafflinger, T. Lee, G. Woszczek (London, United Kingdom)

ROOM G104-105

SESSION 366

08:30 - 10:30

**Poster Discussion: Inflammation and genes in childhood asthma***Organised by the Scientific Group on Paediatric asthma and allergy***Chairs: P. Le Souef (Perth, Australia), C. Soderhall (Huddinge, Sweden)**



- P3277 Do exhaled non-invasive inflammatory markers correlate with respiratory symptoms and lung function in a longitudinal study of childhood asthma?  
C. Robroeks, Q. Jöbbsis, G. Rijker, W. Wodzig, A. Bast, E. Dompeling (Maastricht, Utrecht, The Netherlands)
- P3278 Cytokines and chemokines in the airway epithelial lining fluid are down-regulated in newborns of atopic mothers  
N. Følsgaard, B. L. K. Chawes, M. A. Rasmussen, K. Bonnelykke, S. Brix, H. Bisgaard (Gentofte, Frederiksberg, Lyngby, Denmark)
- P3279 Comparison of online single-breath versus multiple-breath exhaled nitric oxide at school entry in a cohort of unselected children  
O. Fuchs, P. Latzin, F. Singer, E. Proietti, E. Kieninger, U. Frey (Bern, Basel, Switzerland)
- P3280 Factors associated with high levels of exhaled NO in children using asthma medication  
S. Vijverberg, E. Koster, L. Koenderman, D. Postma, G. Koppelman, K. van der Ent, J. Raaijmakers, A. H. Maitland van der Zee (Utrecht, Groningen, The Netherlands)
- P3281 The relationship between exhaled nitric oxide measurements and subsequent asthma control in a cohort of children followed over 12-months  
R. Cutts, S. Turner (Aberdeen, United Kingdom)
- P3282 A longitudinal study of exhaled nitric oxide in children – What explains intersubject variability of measurements?  
R. Cutts, S. Turner (Aberdeen, United Kingdom)
- P3283 Exhaled nitric oxide and clinical phenotype of childhood asthma  
B. Mahut, S. Peyrard, C. Delclaux (Paris, France)
- P3284 Abnormalities in spirometry, impulse oscillometry and exhaled nitric oxide in the university freshmen who have outgrown of bronchial asthma  
S. Takanashi, A. Hayashi, T. Morimoto, K. Taima, J. Denpoya, Y. Tanaka, H. Tanaka, K. Okumura (Hirosaki, Japan)
- P3285 8-isoprostane in exhaled breath condensate in healthy and asthmatic children, and its relationship with tobacco smoke exposure  
B. Ramírez, C. Balanzá, M. Aragonés, E. Montaner (Oviedo, Valencia, Spain)
- P3286 DENND1B gene variants are associated with elevated exhaled nitric oxide in healthy neonates  
A. L. Bischoff, B. L. K. Chawes, E. Kreiner-Møller, H. Hakonarson, H. Bisgaard (Gentofte, Denmark; Philadelphia, United States of America)
- P3287 Interleukin-10 polymorphisms influence the neonatal immune response and may be a risk factor for childhood allergic disease and wheeze  
D. Raedler, S. Illi, I. Schleich, E. Klucker, E. Turan, E. von Mutius, B. Schaub (Munich, Germany)
- P3288 Phenotyping atopic dermatitis in children by filaggrin status. The COPSAC clinical birth cohort study  
C. G. Carson, M. A. Rasmussen, J. P. Thyssen, T. Menné, H. Bisgaard (Gentofte, Frederiksberg, Hellerup, Denmark)
- P3289 Gene expression of inflammatory markers in wheezing preschool children; the ADEM study  
E. M. M. Klaassen, K. D. G. van de Kant, J. Penders, G. M. den Hartog, S. Qi, Q. Jöbbsis, O. C. P. van Schayck, G. H. Koppelman, G. van Eys, E. Dompeling (Maastricht, Groningen, The Netherlands)
- P3290 The chitinase-like protein YKL-40 is elevated in children with severe asthma  
A. James, B. Nordlund, J. Konradsen, L. Johansson, M. Verhoek, R. Boot, S. E. Dahlén, G. Hedlin (Stockholm, Sweden; Amsterdam, The Netherlands)
- P3291 Dysregulated peripheral blood miRNAs in murine experimental and human childhood asthma  
N. Schulz, S. Bartel, F. Alessandrini, G. Heilig, O. Eickelberg, J. Heinrich, S. Krauss-Etschmann (Munich, Germany)
- P3292 Protection against atopic diseases through farm exposure is partially mediated by regulatory T cells  
A. Lluís, M. Depner, P. Saas, B. Gaugler, J. Liu, I. Schleich, V. Kaulek, J. C. Dalphin, D. Vuitton, E. von Mutius, B. Schaub, PASTURE/EFRAIM Study Group (Munich, Germany; Besançon, France; Chang Chun, China)
- P3293 The effects of number of siblings, day-care attendance, and farming on childhood asthma and allergies – The GABRIEL advanced surveys  
J. Genuneit, D. Strachan, G. Büchele, J. Weber, M. Waser, B. Sozanska, A. Baoznanski, P. Cullinan, D. Heederik, C. Braun-Fahrlander, E. von Mutius (Ulm, Munich, Germany; London, United Kingdom; Basel, Switzerland; Wrocław, Poland; Utrecht, The Netherlands)
- P3294 Polymorphisms in 17q12-21 are associated with asthma exacerbation and lung function in asthmatic children  
M. Blekic, B. Kljaic Bukvic, N. Aberle, S. Marinho, A. Custovic, A. Simpson (Slavonski Brod, Croatia; Manchester, United Kingdom)

ROOM G106-107

SESSION 367

08:30 - 10:30

### Poster Discussion: Risk factors and treatment outcomes in multidrug- and extensively drug-resistant tuberculosis

**Chairs:** G. Guenther (Borstel, Germany), V. Botnaru (Chisinau, Republic of Moldova)

- P3295 Temporal trend analysis of TB treatment outcomes in the WHO European region  
M. Dara, G. Sotgiu, A. Dadu, H. Kluge, M. Grzemska, R. Centis, L. D'Ambrosio, G. B. Migliori (Copenhagen, Denmark; Tradate, Sassari, Italy; Geneva, Switzerland)
- P3296 Predictors of treatment outcome in multidrug-resistant tuberculosis  
O. Oliveira, M. Villar, R. Duarte (Porto, Lisbon, Vila Nova de Gaia, Portugal)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P3297 Risk factors for drug-resistant tuberculosis in the north of Portugal  
M. Gomes, A. Correia, D. Mendonça, R. Duarte (Vila Nova de Gaia, Porto, Portugal)
- P3298 Treatment of MDR tuberculosis in Switzerland. A case control study  
W. Karrer, H. Shang, P. Brun (Crans-Montana, Switzerland)
- P3299 Gender and other risk factors for multidrug-resistant (MDR) tuberculosis (TB) among migrants to Milan, Italy  
A. Repossi, M. Delmastro, M. Ferrarese, G. Ferrara, N. Murgia, L. Codecasa (Milan, Terni, Perugia, Italy)
- P3300 Treatment outcomes of MDR-TB patients notified in Romania during 2005-2007  
N. Cioran, E. Ibraim, H. Cocei (Bucharest, Romania)
- P3301 A retrospective 5 years analysis of MDRTB cases from Iasi, Romania  
V. Esanu, A. Sorete Arbore, V. Cojocaru, E. Barnea (Iasi, Romania)
- P3302 Why did they get XDR TB ?  
V. Cojocariu, A. Sorete Arbore, T. Mihaescu (Iasi, Romania)
- P3303 Factors associated with treatment outcome in 64 HIV negative patients with multidrug resistant tuberculosis  
E. Unsal, M. Guler, R. Ofluoglu, N. Capan (Ankara, Turkey)
- P3304 Characteristics of XDR-TB patients in Israel: 2000-2010  
D. Bendayan, A. Hendler, K. Litman (Beer Yaakov, Israel)
- P3305 Outcome of multidrug resistant tuberculosis (MDR-TB) treatment with possible influencing factors  
T. Sahasrabudhe, V. Oswal (Pune, India)
- P3306 Treatment outcome of multi-drug resistant tuberculosis treated as outpatient in a tertiary care center  
I. Muhammad, A. S. Haque, Z. Waheed, J. A. Khan (Karachi, Pakistan)
- P3307 Treatment outcome of multi drug resistant tuberculosis patients in modified DOTS-PLUS: A new strategy  
R. Prasad, A. Singh, R. A. S. Kushwaha, R. Garg, S. Kumar Verma, S. Saheer, G. Hosmane, R. Srivastava, A. Jain (Lucknow, India)
- P3308 Recurrence after successful treatment among patients with multidrug-resistant tuberculosis  
C. G. Yoo, J. Lee, Y. S. Park, S. M. Lee, J. J. Yim, S. C. Yang, Y. W. Kim, Y. S. Shim, S. K. Han (Seoul, Seongnam, Republic of Korea)
- P3309 Risk factors for primary multidrug-resistant tuberculosis in Hanoi, Viet Nam  
N. T. L. Hang, L. T. Lien, N. Kobayashi, P. H. Thuong, N. V. Hung, A. Nanri, T. Mizoue, S. Maeda, T. B. Thuy, N. P. Hoang, S. Sakurada, N. Keicho (Hanoi, Viet Nam; Tokyo, Japan)
- P3310 The analysis of the reasons of failures in treatment at MDR TB patients  
P. Golubchikov, S. Mishustin, N. Zemlyanaya (Tomsk, Russian Federation)
- P3311 Death rates in patients during and after MDR-TB treatment in a semi rural area of South Africa  
M. Van der Walt, K. Shean, M. Van Rensburg (Pretoria, Klerskorp, South Africa)

ROOM E104-106

SESSION 368

08:30 - 10:30

**Poster Discussion: Environmental exposure and disease mechanisms****Chairs: P. Thorne (Iowa City, United States of America), T. Malling (Aalborg, Denmark)**

- P3312 LSC 2011 Abstract: Combined nasal exposure to sodium hypochlorite and ovalbumin induces airway hyperreactivity in mice through activation of the TRPA1 channel and mast cells  
V. Hox, J. Vanoirbeek, I. Callebaut, S. Bobic, V. De Vooght, P. Hellings, B. Nemery (Leuven, Belgium)
- P3313 LSC 2011 Abstract: Changes in the proteome upon dermal sensitization in a mouse model of chemical-induced asthma  
S. Haenen, E. Clynen, V. De Vooght, P. Hoet, B. Nemery, J. Vanoirbeek (Leuven, Diepenbeek, Belgium)
- P3314 Inhalation of nano-scaled titanium dioxide particles aggravates airway inflammation in allergen-challenged mice  
S. Jonasson, A. Gustafsson, B. Koch, E. Näslund-Salomonsson, A. Bucht (Umeå, Sweden)
- P3315 Endotoxin exposure protects against new onset of pollen sensitisation  
G. Elholm, O. Omland, T. Sigsgaard, G. Doekes, I. Basinas, C. Hjort, P. Milvang Grønager, V. Schlünssen (Aarhus, Ålborg, Viborg, Hørsholm, Denmark; Utrecht, The Netherlands)
- P3316 Reduction of diesel exhaust-induced health effects by using a vehicle cabin air inlet filter  
A. Muala, A. Bion, J. Bosson, A. Behndig, A. Blomberg, S. Couderc, T. Sandström (Umeå, Sweden; Guyancourt, France)
- P3317 Osteopontin and soluble mesothelin-related peptide levels in malignant and benign diseases due to environmental asbestos exposure and healthy people with environmental asbestos exposure  
M. Bayram, I. Döngel, A. Akbas, N. D. Bakan, I. Benli (Sivas, Istanbul, Tokat, Turkey)
- P3318 Adipokine adipisin is associated with the degree of parenchymal fibrosis in asbestos-exposed patients  
S. Leivo-Korpela, L. Lehtimäki, R. Nieminen, P. Oksa, T. Vierikko, R. Järvenpää, J. Uitti, E. Moilanen (Tampere, Finland)
- P3319 Short-term exposure to concentrated ambient particles increases airway hyperresponsiveness in normal mice  
J. M. Brito, K. Yoshizaki, A. C. Toledo, B. M. Saraiva-Romanholo, A. A. S. Alemany, M. Macchione, P. H. N. Saldiva (São Paulo, Brazil)

- P3320 Intratracheal fiber glass instillation in rats: Bronchoalveolar lavage interleukin8 levels  
B. Domokos Hancu, M. Pop, M. Iliesu (Cluj Napoca, Romania)
- P3321 Enhanced inflammatory response to formaldehyde in human bronchial epithelial cells  
I. Matsushita, M. Hijikata, H. Ito, N. Keicho (Tokyo, Japan)
- P3322 Impact of traffic-related air pollution on pulmonary oxidative stress  
M. Mantero, S. Aliberti, P. Faverio, L. Geroli, L. Novelli, R. Alinovi, S. Pinelli, A. Pesci (Monza, Parma, Italy)
- P3323 Sputum neutrophilia and annual decline of FEV1 in dust exposed workers  
L. I. B. Sikkeland, T. B. Riste, H. L. Johnsen, V. Søyseth, J. Kongerud (Oslo, Lørenskog, Norway)
- P3324 The percent black carbon content in PM as an effective metric for evaluating the impact of no-traffic Sundays on urban air quality. The results of the 2011 wintertime campaign in Milan, Italy  
G. Invernizzi, A. Ruprecht, C. De Marco, R. Mazza, G. Mocnik, D. Westerdahk, C. Sioutas (Milano, Italy; Ljubljana, Slovenia; Ithaca, Los Angeles, United States of America)
- P3325 Role of p53 in murine macrophages and alveolar epithelial cells response to nanoparticles  
E. Belade, C. Bussy, L. Armand, A. Simon-Deckers, S. Lanone, J. C. Pairon, J. Boczkowski (Creteil, France; London, United Kingdom)
- P3326 Chronic exposure to microcystin-LR: Pulmonary and upper respiratory tract impairment  
V. Oliveira, E. Pinto, V. Mancin, R. Soares, S. Azevedo, R. Pires-Neto, T. Mauad, D. Faffe, A. Carvalho, W. Zin (Rio de Janeiro, São Paulo, Brazil)
- P3327 Chronic exposure of diesel exhaust particles causes alveolar enlargement in mice  
K. Yoshizaki, J. M. Brito, A. C. Toledo, M. Henrique Takachi, A. Alencar, S. Fernezlian, P. H. N. Saldiva, T. Mauad, M. Macchione (São Paulo, Brazil)
- P3328 Changes in exhaled breath condensate pH following specific inhalation challenge in patients with occupational asthma to persulfate salts  
X. Muñoz, S. Sánchez-Vidaurre, M. Espuga, M. D. Untoria, F. Morell, M. J. Cruz (Barcelona, Spain)
- P3329 Toxicity of wood smoke and diesel exhaust in a whole blood assay  
J. H. Bønløkke, D. Leleman, M. Gerlofs-Nijland, F. Cassee, T. Sigsgaard (Aarhus C, Denmark; Bilthoven, The Netherlands)

ROOM E102

SESSION 369

08:30 - 10:30

**Poster Discussion: Experimental pulmonary hypertension****Chairs: A. Ghofrani (Giessen, Germany), S. Gaine (Dublin, Ireland)**

- P3330 Effect of interferon  $\alpha$  preparations on IP10 and ET-1 release from human pulmonary artery smooth muscle cells  
R. Badiger, T. Manigold, H. Gashaw, H. J. Hinton, T. Singer, P. M. George, T. T. Hansel, J. A. Mitchell (London, United Kingdom; Basel, Switzerland)
- P3331 Could platelet-activating factor acetylhydrolase (PAF-AH) predict adverse event in pulmonary hypertension?  
R. Quarck, H. Durand, E. Ninio, M. Delcroix (Leuven, Belgium; Paris, France)
- P3332 Hypoxia-mediated alterations in adenosine receptor expression in rat lung  
J. Salys, A. Kratzer, M. Zamora, L. Taraseviciene-Stewart (Aurora, United States of America)
- P3333 Potential contribution of precursor cells to vascular remodeling in the AdTGF- $\beta$ 1 model of lung fibrosis and pulmonary hypertension  
L. Farkas, D. Farkas, D. Kraskauskas, J. Gauldie, M. Kolb, N. Voelkel (Richmond, United States of America; Hamilton, Canada)
- P3334 Caspase inhibition reduces severe pulmonary hypertension in the AdTGF-1 $\beta$ /SU5416 model of angioproliferative pulmonary hypertension and lung fibrosis  
L. Farkas, D. Farkas, D. Kraskauskas, J. Gauldie, M. Kolb, N. Voelkel (Richmond, United States of America; Hamilton, Canada)
- P3335 Effects of type I, II and III interferons on endothelin-1 release by human pulmonary artery smooth muscle cells  
P. M. George, R. Badiger, H. Gashaw, N. Galloway-Phillipps, T. T. Hansel, J. A. Mitchell (London, United Kingdom)
- P3336 Roles of sex hormones on bone morphogenetic protein signaling in pulmonary artery differed between testosterone and estrogen  
H. Ichimori, S. Kogaki, K. Takahashi, K. Ozono (Suita, Japan)
- P3337 Pulmonary hypertension in the newborn GTP-cyclohydrolase 1 deficient mouse is unrelated to endothelium-dependent vasorelaxation potential  
J. Belik, B. McIntyre, J. Pan, J. Vasquez-Vivar (Toronto, Canada; Milwaukee, United States of America)
- P3338 Autoimmunity and pulmonary arterial hypertension: The role of leptin  
A. Huertas, D. Montani, N. Gambaryan, F. Perros, B. Girerd, S. Cohen-Kaminsky, M. Humbert (Le Plessis-Robinson, Clamart, France)
- P3339 Risk factors for elevated liver function tests (eLFTs) in patients with pulmonary arterial hypertension (PAH) treated with sitaxentan and followed in a European safety registry  
L. J. Hwang, J. Teeter, M. Louie, H. Toft Sørensen, C. de Luise (New York, United States of America; Aarhus, Denmark)

## TUESDAY SEPTEMBER 27

- P3340 Increased p130<sup>Cas</sup> activity induces smooth muscle cell proliferation and migration in idiopathic pulmonary arterial hypertension  
L. Tu, F. De Man, F. Lecerf, C. François, P. Darteville, G. Simonneau, E. Fadel, M. Humbert, S. Eddahibi, C. Guignabert (Le Plessis-Robinson, France; Amsterdam, The Netherlands)
- P3341 Ghrelin effects on local renin angiotensin from pulmonary vessels  
I. L. Dumitriu, E. Cojocaru, L. G. Vata, M. Costuleanu, B. Gurzu, S. M. Slatineanu (Iasi, Romania)
- P3342 Nestin expressing progenitor cells in pulmonary vasculature  
F. Saboor, C. Berndt, N. Weissmann, R. Schermuly, D. Müller, R. Middendorff (Giessen, Germany)
- P3343 Endothelial cell mechanics are altered in pulmonary arterial hypertension (PAH)  
C. Hardin, R. Krishnan, D. Tambe, S. Sheik, G. Manomohan, J. Fredberg, A. Waxman (Boston, United States of America)
- P3344 Involvement of cytoskeletal protein paxillin in the pathogenesis of pulmonary hypertension  
C. Veith, W. Seeger, N. Weissmann, G. Kwapiszewska (Giessen, Germany)
- P3345 Determination of cell-derived microparticles in patients with pulmonary hypertension and connective-tissue diseases using flow cytometry  
X. Kqiku, G. Kovacs, E. Rohde, D. Strunk, H. Olschewski (Graz, Salzburg, Austria)
- P3346 The role of the accessory type III transforming growth factor- $\beta$  receptors in the regulation of pulmonary vascular development  
G. Niess, M. Michiels-Corsten, W. Seeger, R. Morty (Bad Nauheim, Germany)
- P3347 Elevated levels of adenosine in the lungs lead to chronic lung injury and pulmonary hypertension  
H. Karmouty-Quintana, H. Zhong, D. Zeng, L. Belardinelli, M. Blackburn (Houston, Palo Alto, United States of America)

ROOM D201-202

SESSION 370

08:30 - 10:30

**Poster Discussion: Biomarkers and exacerbations of asthma and COPD****Chairs: G. Brusselle (Ghent, Belgium), S.L. Johnston (London, United Kingdom)**

- P3348 Monitoring PGD<sub>2</sub> production in airway disease  
J. Larsson, D. Balgoma, I. Delin, T. Gülen, G. Nilsson, H. Hägglund, K. Daham, J. Lawson, G. FitzGerald, B. Dahlén, C. Wheelock, S. E. Dahlén (Stockholm, Sweden; Philadelphia, United States of America)
- P3349 Antibiotics in exacerbations of asthma  
R. Loijmans, P. van Velzen, L. Beem, M. Stommel, G. ter Riet, P. Sterk (Amsterdam, The Netherlands)
- P3350 Monitoring free serum IgE in severe asthma patients treated with omalizumab  
S. Korn, I. Haasler, F. Fliedner, G. Becher, P. Strohner, A. Staatz, C. Taube, R. Buhl (Mainz, Bernau, Berlin, Germany)
- P3351 Serum immunoglobulin level is a useful marker for the risk of opportunistic infection in steroid dependent patients with chronic inflammatory airway diseases  
M. Akahane, N. Horita, T. Takezawa, T. Arai, M. To, Y. To (Tokyo, Japan)
- P3352 Effects of omalizumab on markers of eosinophilic inflammation in patients with severe allergic asthma  
M. Hübner, S. Korn, M. Jung, I. Haasler, C. Taube, R. Buhl (Mainz, Germany)
- P3354 Reduction in incidence of exacerbations in patients with alpha 1 antitrypsin deficiency (A1ATD) treated with concentrates of alpha 1 antitrypsin (A1AT): REXA study  
M. L. Torres Duran, J. C. Barros Tizon, Investigators of the Spanish Group for REXA Study (Vigo, Spain)
- P3355 Efficacy of roflumilast in the frequent exacerbation COPD phenotype  
J. Wedzicha, K. Rabe, P. Calverley, F. Martinez, D. Bredenbröker, M. Brose, U. M. Goehring (London, Liverpool, United Kingdom; Grossshansdorf, Konstanz, Germany; Ann Arbor, United States of America)
- P3356 Modelling and simulation in successful drug development programmes: Characterisation of exacerbation reduction with roflumilast to corroborate the importance of defining patient subsets in COPD  
G. Lahu, A. Facius, L. Claret, R. Bruno, D. Bredenbröker (Konstanz, Germany; Marseilles, France)
- P3357 Clinical implications of serum procalcitonin in acute exacerbations of chronic obstructive pulmonary disease  
G. Agmy, Y. Ahmed, S. Helal (Assiut, Egypt)
- P3358 Efficacy and safety of bacterial lysates in patients with chronic obstructive pulmonary disease and exacerbation  
H. Tang, Z. Fang, Q. Xiu, on behalf of the Broncho-Vaxom Study Group (Shanghai, China)
- P3359  $\beta$ -blockers and risk of COPD exacerbation requiring hospitalisation in patients with COPD  
A. Afonso, K. Verhamme, G. Brusselle, M. Sturkenboom (Rotterdam, The Netherlands; Ghent, Belgium)
- P3360 Skin sensitivity to corticosteroids is associated with COPD susceptibility  
S. J. M. Hoonhorst, A. T. Lo Tam Loi, R. G. A. Hiltermann, L. Koenderman, J. W. Lammers, D. S. Postma, N. H. T. ten Hacken (Groningen, Utrecht, The Netherlands)
- P3361 Inhaled corticosteroids in patients with mild to moderate COPD with and without airway hyperresponsiveness to mannitol: A randomized placebo controlled trial  
A. Scherr, J. Anja, S. Salome, D. Miedinger, M. Sabrina, A. Taegtmeier, C. Prashant, S. Anderson, T. Michael, J. D. Leuppi (Basel, Switzerland; Camperdown, Australia)

- P3362 Double blind, placebo controlled crossover study in COPD patients to assess the acute effect of budesonide/formoterol using HRCT and lung function tests  
L. De Backer, J. De Backer, W. Vos, C. Van Holsbeke, S. Vinchurkar, W. De Backer (Antwerp, Antwerpen, Belgium)
- P3363 Antibiotic prescription in asthma exacerbations in the admitting and emergency (A&E) department  
C. Gouder, J. Farrugia Preca, R. Asciak, J. Micallef, S. Montefort (Birkirkara, Malta)
- P3364 Roflumilast in Asian patients with COPD: A randomised placebo-controlled trial  
D. Hui, A. Mahayiddin, C. Roa, K. H. Kwa, D. Bredenbröker, U. M. Goehring, H. P. Kuo, S. D. Lee (Shatin, Hong Kong; Kuala Lumpur, Malaysia; Manila, Philippines; Konstanz, Germany; Taipei, Taiwan; Seoul, Republic of Korea)

## ROOM 7.1

## SESSION 372

10:45 - 11:05

**COPD Research Award Ceremony (supported by Boehringer Ingelheim)**

- 10:45 ERS COPD Research Award Introduction  
V. Cottin (Lyon, France) 3365
- 10:50 2011 COPD Research Awardee  
H. M. Boezen (Groningen, The Netherlands) 3366

## FOLLOWED BY

11:05 - 12:45

**“Clinical Year in Review II”**

**Aims:** This session will offer the possibility to review four topics of paramount interest for clinicians and fellows in training. This will highlight the new and emerging clinical concepts in the management of respiratory-related diseases and conditions.

Further references on the topic:

“Advances in sleep medicine”

«Advances in understanding the effects of outdoor pollution: the potential of gene-environment interactions»

- Zanobetti A, Baccarelli A, Schwartz J. Gene-air pollution interaction and cardiovascular disease: a review. *Prog Cardiovasc Dis* 2011; 53: 344-352.

- Minelli C, Wei I, Sagoo G, et al. Interactive effects of antioxidant genes and air pollution on respiratory function and airway disease: A HuGE Review. *Am J Epidemiol* 2011; 173: 603-620.

- Postma DS, Kerkhof M, Boezen HM, et al. Asthma and COPD: common genes, common environments? *Am J Respir Crit Care Med* 2011;183: 1588-1594.

- Imboden M, Schwartz J, Schindler C, et al. Decreased PM10 exposure attenuates age-related lung function decline: genetic variants in p53, p21, and CCND1 modify this effect. *Environ Health Perspect* 2009; 117: 1420-1427.

«Advances in COPD»

“Advances in acute critical care”

- Pelosi P, Ferguson ND, Frutos-Vivar F, et al. Management and outcome of mechanically ventilated neurological patients. *Crit Care Med* 2011; 39: 1482-1492.

- Pelosi P, Luecke T, Rocco PR, et al. Chest wall mechanics and abdominal pressure during general anaesthesia in normal and obese individuals and in acute lung injury. *Curr Opin Crit Care* 2011; 17: 72-79.

- Rocco PR, Pelosi P, Gama de Abreu M. Pros and cons of recruitment maneuvers in acute lung injury and acute respiratory distress syndrome. *Expert Rev Respir Med* 2010; 4: 479-489.

- Spieth M, Carvalho AR, Guldner A. Pressure support improves oxygenation and lung protection compared to pressure-controlled ventilation and is further improved by random variation of pressure support. *Crit Care Med*; 2011; 39: 746-755.

**Target audience:** Clinicians, surgeons, and allied health professionals involved in patient care and trainees.

**Chairs:** T. Sigsgaard (Aarhus, Denmark), E. Clini (Modena, Italy)

- 11:05 Advances in sleep medicine  
J-L. Pépin (Grenoble, France) 3367
- 11:30 Advances in understanding the effects of outdoor pollution: the potential of gene-environment interactions  
N. Probst (Basel, Switzerland) 3368
- 11:55 Advances in COPD  
P. M. A. Calverley (Liverpool, United Kingdom) 3369
- 12:20 Advances in acute critical care  
P. Pelosi (Genoa, Italy) 3370

## AUDITORIUM

## SESSION 373

10:45 - 12:45

**Symposium: New imaging tools for diagnosis of alterations in lung structure and function in COPD**

**Aims:** The aims of this session are to provide:

- an update on the most advanced imaging methods and techniques suitable for measuring regional lung function in COPD;
- an overview of the advantages and disadvantages of the different techniques;
- a general idea on which technique(s) is/are more suitable for different clinical applications.

**Target audience:** Physiologists, clinical investigators, respiratory physicians and thoracic surgeons.

**Chairs:** G. Miserocchi (Monza, Italy), R. Rodríguez-Roisin (Barcelona, Spain)

- 10:45 Tracheo-bronchial tree structure and function: assessment by computed tomography and computational fluid-dynamics  
W. De Backer (Antwerp, Belgium) 3371

CLINICAL

PHYSIOLOGY

TUESDAY  
27

## TUESDAY SEPTEMBER 27

11:15	Alveolar structure in COPD: assessment by hyperpolarised helium and magnetic resonance imaging J. Woods (St-Louis, United States of America)	3372
11:45	Airway wall structure in COPD: assessment by computed tomography and optical coherence tomography H. Coxson (Vancouver, Canada)	3373
12:15	Regional specific gas volume and gas trapping in COPD by computed tomography A. Aliverti (Milan, Italy)	3374

## ROOM 7.2

## SESSION 374

10:45 - 12:45

**Symposium: Respiratory complications after chest trauma: current management**

**Aims:** The aim of this symposium is to establish the basis for diagnosis and treatment of respiratory complications in trauma patients.

**Target audience:** Pulmonologists dealing with trauma patients, intensivists and thoracic surgeons.

**Chairs:** E. Canalis (Barcelona, Spain), G. Hedlin (Stockholm, Sweden)

10:45	Chest trauma G. Mattioli (Genoa, Italy)	3375
11:15	Nowadays indications for surgical stabilisation of the chest wall J. Wihlm (Strasbourg, France)	3376
11:45	Respiratory infections after chest trauma in the intensive care unit patient J. Rello Condomines (Barcelona, Spain)	3377
12:15	Specific problems after war casualties C. Dumurgier (Paris, France)	3378

## ELICIUM 2

## SESSION 375

10:45 - 12:45

**Symposium: Interventional bronchoscopy in children**

**Aims:** At the end of the symposium participants will be able to:

- appreciate the classification and the patho-physiology of airway obstruction;
- describe the investigations to be used in the clinical assessment of children with airway obstruction;
- appreciate therapeutic strategies in children with airway obstruction;
- appreciate the clinical follow-up of infants who receive endoscopic treatment for airway obstruction.

**Target audience:** Paediatricians, neonatologists, paediatric pulmonologists and thoracic surgeons.

**Chairs:** F. Midulla (Rome, Italy), E. Eber (Graz, Austria)

10:45	Classification, patho-physiology and clinical assessment of airway obstruction in children S. Kotecha (Cardiff, United Kingdom)	3379
11:15	Airway stents in children T. Nicolai (Munich, Germany)	3380
11:45	Desobstruction methods for endobronchial airway stenoses: similarities and differences between children and adults C. Bolliger (Cape Town, South Africa)	3381
12:15	Management of congenital long segment tracheal stenosis M. Elliott (London, United Kingdom)	3382

## ROOM 5.1

## SESSION 376

10:45 - 12:45

**Symposium: Why is epigenetics important for lung disease?**

**Aims:** The aim of this symposium is to inform the audience of emerging concepts regarding alterations in gene expression in lung disease.

**Target audience:** Clinicians, clinician scientists and basic research scientists.

**Chairs:** C. Taggart (Belfast, United Kingdom), C. Bingle (Sheffield, United Kingdom)

10:45	Introduction: what is epigenetics? M. Kabesch (Hannover, Germany)	3383
11:15	Epigenetic modifications in idiopathic pulmonary fibrosis L. Pang (Nottingham, United Kingdom)	3384
11:45	Histone deacetylases (HDACs) and lung disease I. M. Adcock (London, United Kingdom)	3385
12:15	DNA methylation and histone modifications of susceptibility in COPD and lung cancer I. Rahman (Rochester, United States of America)	3386

PAEDIATRIC

CLINICAL/BASIC

## ONCOLOGY

## ROOM 4.1

## SESSION 377

10:45 - 12:45

**Hot Topic: Recent therapeutic advances with tyrosine-kinase inhibitors in nonsmall-cell lung cancer**

**Aims:** The audience will learn about the emergence of a new type of drug, the tyrosine-kinase inhibitors (TKI), in the management of lung cancer and the most recent clinical applications of TKI in the management of some advanced nonsmall cell lung cancer (NSCLC).

**Target audience:** Chest physicians and oncologists managing patients with advanced NSCLC, as well as all those who are interested by recent advances in the medical treatment of cancer.

**Chairs:** J-P. Sculier (Brussels, Belgium), R. M. Huber (Munich, Germany)

- |       |  |      |
|-------|--|------|
| 10:45 | TKIs: a new class of drugs in the management of lung cancer<br>J. Cadranel (Paris, France)                         | 3387 |
| 11:15 | Gefitinib for lung tumours with mutated EGF receptors<br>M. Maemondo (Natori-Miyagi, Japan)                        | 3388 |
| 11:45 | Maintenance treatment with erlotinib after induction chemotherapy for advanced NSCLC<br>B. Coudert (Dijon, France) | 3389 |
| 12:15 | ALK inhibition with crizotinib<br>J. Clark (Boston, United States of America)                                      | 3390 |

## INFECTIO

## ELICIUM 1

## SESSION 378

10:45 - 12:45

**Oral Presentation: Non-tuberculous mycobacteria pulmonary infections**

**Chairs:** J. Van Ingen (Nijmegen, The Netherlands), D. Wagner (Freiburg Im Breisgau, Germany)

- |       |   |      |
|-------|---|------|
| 10:45 | Keynote lecture: Keynote lecture: Clinical relevance of non-tuberculous mycobacterial infections<br>E. Tortoli (Milan, Italy)   | 3391 |
| 11:00 | Geographic diversity of nontuberculous mycobacteria isolated from pulmonary samples in Croatia<br>M. Jankovic, M. Samarzija, S. Popovic-Grlje, I. Sabol, M. Obrovac, L. Zmak, G. Redzepi, V. Katalinic-Jankovic, M. Jakopovic (Zagreb, Croatia)   | 3392 |
| 11:15 | Nontuberculous mycobacteria – Isolation in respiratory specimens and its clinical relevance<br>S. Campainha, R. Braga, I. Valente, A. Carvalho, R. Duarte (Vila Nova de Gaia, Portugal)   | 3393 |
| 11:30 | Pulmonary disease caused by non-tuberculous mycobacteria. Descriptive study and comparison with mycobacterium tuberculosis<br>S. Pedrero Tejada, M. Alfonso Imizcoz, B. Vilar Achabal, L. M. Soria Riendas, N. Marina Malanda, I. Martinez Rienda, I. Lopez Mirones, J. M. Antoñana, E. Urrea Zalbidegoitia, R. Zalacain Jorge (Barakaldo, Spain) | 3394 |
| 11:45 | High burden of rapidly growing non-tuberculosis mycobacteria in patients with respiratory disease undergoing elective bronchoscopy<br>N. Dissanayake, D. Madegedara, D. MaganaArachchi, U. Karunarathna, D. Yasaratne, C. De Silva, C. Kulathunga, S. Nakandala, P. Wijerathne, C. Wirasinghe (Kandy, Sri Lanka)                                  | 3395 |
| 12:00 | Ability of IGRAs for diagnosis of tuberculosis infection in adolescents, and role of non-tuberculous mycobacteria in the positivity of tuberculin skin test<br>I. Mialdea, I. Latorre, E. Giner, N. Díez, C. Salazar, A. Salazar, J. Domínguez, A. Escribano (Valencia, Badalona, Spain)  | 3396 |
| 12:15 | Clinical study of mycobacterium avium complex pulmonary disease complicated by interstitial pneumonia<br>H. Tabata, Y. Mochizuki, Y. Nakahara, T. Kawamura, S. Sasaki, H. Okamoto, A. Morimoto, T. Mayumi, H. Tukamoto, Y. Mizumori, T. Miyagawa, T. Yokoyama, E. Watanabe, R. Katsuda, K. Mimura, R. Kagami, Y. Onishi (Himeji-City, Japan)      | 3397 |
| 12:30 | Transitional change of the relationship between clinical efficacy of treatment for pulmonary MAC disease and drug-sensitivity test for MAC isolated<br>Y. Kobashi, M. Abe, K. Mouri, Y. Obase, N. Miyashita, M. Oka (Kurashiki, Japan)  | 3398 |

## FORUM

## SESSION 379

10:45 - 12:45

**Oral Presentation: Early wheezing conditions in childhood**

**Chairs:** S. Turner (Aberdeen, United Kingdom), F. Rusconi (Florence, Italy)

- |       |   |      |
|-------|---|------|
| 10:45 | Keynote Lecture: introduction<br>S. Turner (Aberdeen, United Kingdom)   | 3399 |
| 11:00 | Association of wheezing phenotypes in the first 7 years of life with fractional exhaled nitric oxide and lung function in adolescence. The ALSPAC study<br>L. Duijts, R. Granel, J. A. C. Sterne, J. A. Henderson (Bristol, United Kingdom) | 3400 |

TUESDAY  
27

## TUESDAY SEPTEMBER 27

- 11:15 International study of wheezing in infants (EISL): How latitude modifies the associations between risk and protective factors for recurrent wheeze during the first year of life  
L. Garcia-Marcos, J. Mallol, D. Sole, P. Brand, M. Sanchez-Solis, M. Sanchez-Bahillo, EISL Study Group (Murcia, Spain; Santiago, Chile; São Paulo, Brazil; Zwolle, The Netherlands) 3401
- 11:30 Effect of late preterm birth on longitudinal lung spirometry in children  
S. J. Kotecha, W. J. Watkins, D. Herrick, S. Paranjothy, F. D. Dunstan, A. J. Henderson, S. Kotecha (Cardiff, Bristol, United Kingdom) 3402
- 11:45 Reduced neonatal lung function and wheezing illnesses during the first 5 years of life  
A. van der Gugten, C. Uiterwaal, T. Verheij, K. van der Ent (Utrecht, The Netherlands) 3403
- 12:00 Factors associated with elevated FeNO in infants with recurrent respiratory symptoms  
A. Kotaniemi-Syrjänen, P. Malmberg, K. Malmström, A. Pelkonen, M. Mäkelä (Helsinki, Finland) 3404
- 12:15 Association between breastfeeding and lung volumes and alveolar size  
C. M. Dogaru, M. Narayanan, M. P. F. Strippoli, A. M. Pescatore, B. D. Spycher, C. S. Beardsmore, M. Silverman, J. Owers-Bradley, C. E. Kuehni (Bern, Switzerland; Leicester, Nottingham, United Kingdom) 3405
- 12:30 Early life exposure to locally-generated PM<sub>10</sub> and lung function measurements at school-age  
M. P. F. Strippoli, A. Hallberg, C. S. Beardsmore, M. Silverman, J. Grigg, C. E. Kuehni (Bern, Switzerland; Leicester, London, United Kingdom) 3406

## ROOM 5.2

## SESSION 380

10:45 - 12:45

**Oral Presentation: Late-Breaking Abstracts Session: New mechanisms in airway disease****Chairs: A. Spanevello (Tradate, Italy), C. Corrigan (London, United Kingdom)**

- 10:45 Late-breaking abstract: Comparison of bone marrow derived-mononuclear cells with mesenchymal stem cells on inflammatory and remodeling processes in experimental chronic allergic asthma  
S. Abreu, M. Antunes, D. Xisto, M. Vasconcellos, J. Crossetti, V. Capelozzi, M. Morales, P. Rocco (Rio de Janeiro, São Paulo, Brazil) 3407
- 11:00 Late-breaking abstract: Changes in cortisol levels in the plasma of asthmatic individuals undergoing allergen inhalation challenge differentiate isolated early from dual responders  
S. Tebbutt, S. Kam, A. Singh, L. P. Boulet, M. FitzGerald, G. Gauvreau, P. O'Byrne (Vancouver, Sainte-Foy, Hamilton, Canada) 3408
- 11:15 Late-breaking abstract: Interleukin 17 expression and peripheral blood neutrophils chemotaxis in patients with allergic rhinitis and asthma challenged with *D. pteronyssinus*  
L. Bajoriuniene, K. Malakauskas, S. Lavinskiene, E. Gasiuniene, J. Jeroch, A. Vitkauskiene, R. Sakalauskas (Kaunas, Lithuania) 3409
- 11:30 Late-breaking abstract: Bronchial allergen challenge with *D. Pteronyssinus* inhibit blood neutrophil apoptosis in patients with allergic asthma and rhinitis  
S. Lavinskiene, J. Jeroch, K. Malakauskas, I. Bajoriuniene, E. Gasiuniene, J. Jackute, R. Sakalauskas (Kaunas, Lithuania) 3410
- 11:45 Late-breaking abstract: House dust mite triggering of Dectin-2 is critical for the initiation of allergic airway inflammation  
D. Clarke, M. Foster, N. Davis, S. Heasman, A. Lewis, I. Anderson, M. Sleemam, R. May, M. Robinson (Cambridge, Loughborough, United Kingdom) 3411
- 12:00 Late-breaking abstract: Dysregulation of allergic airway inflammation in the absence of microbial colonization  
A. Sichelstiel, T. Herbst, N. Harris, B. Marsland (Lausanne, Switzerland) 3412
- 12:15 Late-breaking abstract: Relationship with hemoglobin A1c and exacerbations of COPD. A preliminary study  
H. Aoki, T. Hisada, H. Tsurumaki, R. Yoshino, H. Kuwabara, T. Ishizuka, K. Dobashi, M. Mori (Maebashi, Japan) 3413
- 12:30 Late-breaking abstract: Further studies on the mechanism of action of doxofylline  
T. Jolas, C. Page, L. Allegra (Celle l'Evescault, France; London, United Kingdom; Milan, Italy) 3414

## ROOM 3.1

## SESSION 381

10:45 - 12:45

**Oral Presentation: Highlights in lung function 2011****Chairs: J. Lloyd (Staffordshire, United Kingdom), J. Makonga-Braaksma (Woudenberg, The Netherlands)**

- 10:45 Effectiveness of a telemedicine program in the quality of spirometries in primary care centres  
N. Marina, E. Lopez de Santamaria, L. Garcia, S. Pedrero, M. Inchausti, A. Urrutia, J. B. Galdiz (Baracaldo, Spain) 3415
- 11:00 Flow-volume loops in central airway obstruction  
L. Raposo, A. Bugalho, M. J. Gomes (Lisbon, Portugal) 3416
- 11:15 Survival analysis can help determine which TLco prediction equations to use for patient data  
H. Ward, R. Stockley, M. Miller (Birmingham, United Kingdom) 3417
- 11:30 Evaluating the FVC-reference equation for female  
J. Makonga-Braaksma, R. Boksem, P. Dalinghaus (Amersfoort, The Netherlands) 3418



- 11:45 How many forced spirometry efforts are useful in moderate to severe COPD patients?  
J. Reinstaedtler (Hoechberg, Germany) 3419
- 12:00 Vital capacity after lung transplantation  
M. Horstman, C. Zaat, T. Provily, H. C. Hoogsteden (Rotterdam, The Netherlands) 3420
- 12:15 Reasons for referral for pulmonary function testing: An audit of four Australian adult lung function laboratories  
J. Pretto, P. Guy, D. Brazzale, J. Williams, M. Hensley (Newcastle, Clayton, Heidelberg, Bundoora, Australia) 3421

## ROOM 3.2

## SESSION 382

10:45 - 12:45

**Oral Presentation: New treatments for airway disease****Chairs: F. Chung (London, United Kingdom), K. Ohta (Tokyo, Japan)**

- 10:45 Safety of bronchial thermoplasty out to 5 years in patients with severe refractory asthma: Research in severe asthma (RISA) trial  
M. Laviolette, I. Pavord, N. Thomson, R. Niven, G. Cox, P. Corris, K. Fan-Chung (Québec, Hamilton, Canada; Leicester, Glasgow, Manchester, Newcastle-upon-Tyne, London, United Kingdom) 3422
- 11:00 Efficacy of high-dose leukocytapheresis using extracorporeal circulation through a large leukocyte-removal filter column in patients with refractory asthma  
T. Ishizuka, A. Koike, M. Hatori, S. Matsuzaki, Y. Kamide, H. Aoki, T. Hisada, H. Tsurumaki, A. Ono, Y. Koga, K. Dobashi, K. Suzuki, M. Mori (Maebashi, Japan) 3423
- 11:15 The effect of GSK2190915, a 5-lipoxygenase activating protein inhibitor, on the allergen induced asthmatic response  
V. Norris, J. Bentley, S. Kent, M. Boyce, Z. Diamant, D. Singh, B. O'Connor (Stevenage, London, Manchester, United Kingdom; Leiden, The Netherlands) 3424
- 11:30 Phase 2 randomized, double-blind, placebo-controlled study of tralokinumab, an anti-IL-13 monoclonal antibody, in moderate to severe asthma  
E. Piper, C. Brightling, R. Niven, C. Oh, R. Faggioni, K. Poon, D. She, C. Kell, R. May, G. Geba, N. Molfino (Gaithersburg, United States of America; Leicester, Manchester, United Kingdom) 3425
- 11:45 Efficacy of an anti-IL13 monoclonal antibody, lebrikizumab, in adults with inadequately controlled asthma is enhanced in those with high periostin levels  
N. A. Hanania, R. F. Lemanske, Jr., P. E. Korenblat, J. R. Arron, J. M. Harris, Z. Su, S. Mosesova, J. G. Matthews, M. V. Parsey, S. Bohlen, M. M. Freemer (Houston, Madison, St. Louis, South San Francisco, Menlo Park, United States of America) 3426
- 12:00 NVA237 once daily reduces the percentage of patients with exacerbations of COPD and associated hospitalizations: The GLOW1 trial  
A. D'Urzo, G. Ferguson, C. Martin, Y. Lu, D. Banerji, T. Overend (ON, Canada; Livonia, East Hanover, United States of America; Horsham, United Kingdom) 3427
- 12:15 Pleiotropic effects of add-on atorvastatin therapy during the treatment of COPD patients  
R. Mroz, A. Tycinska, L. Minarowski, J. Bierla, P. Lisowski, B. Sobkowicz, E. Chyczewska, W. Musial, W. MacNee (Bialystok, Warsaw, Poland; Edinburgh, United Kingdom) 3428
- 12:30 Beta-blockers in chronic obstructive pulmonary disease – A retrospective cohort study  
P. Short, D. Elder, P. Williamson, S. Lipworth, S. Schembri, B. Lipworth (Dundee, St. Andrews, Perth, United Kingdom) 3429

## ROOM 4.2

## SESSION 383

10:45 - 12:45

**Oral Presentation: Pathobiology of experimental pulmonary hypertension****Chairs: A. Peacock (Glasgow, United Kingdom), A. Chaouat (Vandoeuvre-Les-Nancy, France)**

- 10:45 Late-breaking abstract: Intracellular mechanisms behind the effect of C-reactive protein on proximal vascular cells of CTEPH patients  
M. Wynants, R. Quarck, B. Meyns, M. Delcroix (Leuven, Belgium) 3430
- 11:00 Human pulmonary arterial hypertension bone marrow-derived CD133+ myeloid progenitors induce vascular remodeling in immunodeficient mice  
K. Asosingh, S. Farha, A. Lichtin, J. Sharp, D. George, B. Graham, M. Aldred, K. Theil, J. Loyd, R. Tuder, S. Erzurum (Cleveland, United States of America) 3431
- 11:15 Prolonged overcirculation-induced pulmonary arterial hypertension, as a cause of right ventricular failure  
L. Dewachter, B. Rondelet, C. Dewachter, F. Kerbaul, X. Kang, P. Fesler, S. Brimiouille, R. Naeije (Brussels, Belgium) 3432
- 11:30 Expression and role of the nerve growth factor NGF in pulmonary hypertension  
V. Freund-Michel, M. Dubois, D. Dahan, A. Courtois, R. Marthan, J. P. Savineau, B. Muller (Bordeaux, France) 3433
- 11:45 Inflammatory processes in load-induced right ventricular failure  
C. Dewachter, L. Dewachter, M. Vercruyssen, B. Rondelet, D. P. Schraufnagel, P. Fesler, S. Brimiouille, F. Kerbaul, R. Naeije (Brussels, Belgium) 3434

## TUESDAY SEPTEMBER 27

- 12:00 Right lung ischemia induces development of contra-lateral pulmonary vasculopathy  
E. Sage, O. Mercier, P. Darteville, S. Eddahibi, E. Fadel (Le Plessis Robinson, France) 3435
- 12:15 p53-dependent, replicative cell senescence suppresses chronic hypoxia-Induced pulmonary hypertension in mice  
C. Guignabert, L. Tu, I. Drascovic, C. François, P. Darteville, G. Simonneau, E. Fadel, M. Humbert, A. Londoño-Vallejo, S. Eddahibi (Le Plessis-Robinson, Paris, France) 3436
- 12:30 Right ventricular oxygen supply and diffusion in human and experimental pulmonary hypertension  
G. Ruitter, Y. Y. Wong, F. de Man, L. Handoko, P. Postmus, N. Westerhof, H. Niessen, W. van der Laarse, A. Vonk-Noordegraaf (Amsterdam, The Netherlands) 3437

## EMERALD

## SESSION 384

10:45 - 12:45

## Oral Presentation: Outdoor air pollution studies

Chairs: G. Hoek (Utrecht, The Netherlands), J. Pekkanen (Kuopio, Finland)

- 10:45 Late-breaking abstract: Do emissions from animal farms affect the airways of neighboring residents?  
L. A. M. Smit, A. W. J. Opstal-van Winden, F. van der Sman-de Beer, M. Hooiveld, J. Beekhuizen, I. M. Wouters, J. IJzermans, D. Heederik (Utrecht, The Netherlands) 3438
- 11:00 Late-breaking abstract: Pneumonia hospitalizations and long-term exposure to air pollution: A cohort study  
K. Ranc, P. B. Brockoff, R. W. Thomsen, O. Raaschou Nielsen, M. Ketznel, S. S. Jensen, A. Tjønneland, K. Overvad, Z. Jovanovic Andersen (Copenhagen, Aalborg, Roskilde, Denmark, Denmark) 3439
- 11:15 Impact of climate change on ozone induced mortality in Europe  
B. Forsberg, H. Orru, C. Åström, C. Andersson, K. Ebi, J. Langner (Umea, Norrköping, Sweden; Tartu, Estonia; Los Altos, United States of America) 3440
- 11:30 Long-term exposure to air pollution and asthma hospitalizations in elderly adults: A cohort study  
Z. Andersen, K. Bønnelykke, M. Hvidberg, S. Jensen, M. Ketznel, S. Loft, M. Sørensen, A. Tjønneland, K. Overvad, O. Raaschou-Nielsen (Copenhagen, Gentofte, Roskilde, Aarhus, Aalborg, Denmark) 3441
- 11:45 Increased plasmatic levels of soluble HLA-G molecules are associated to short-term exposure to fine urban particulate matter  
G. Guarnieri, R. Rizzo, A. Bordin, M. C. Scarpa, P. Maestrelli (Padova, Ferrara, Italy) 3442
- 12:00 Antioxidant supplementation attenuates changes in innate immunity associated with diesel exhaust (DE) in the lung: A controlled crossover exposure study  
C. Carlsten, M. Pui, M. MacNutt, J. Lay, N. Alexis (Vancouver, Canada; Chapel Hill, United States of America) 3443
- 12:15 Outdoor exposure to formaldehyde (CH<sub>2</sub>O) is associated with an increased risk of hospitalization for respiratory diseases in children  
R. de Marco, P. Marchetti, P. Girardi, M. E. Fracasso, L. Guarda, A. Marcon, V. Pironi, G. Siliprandi, P. Ricci (Verona, Mantua, Italy) 3444
- 12:30 Altered haemodynamic response to norepinephrine following diesel exhaust inhalation  
J. Unosson, J. Bosson, J. Langrish, J. Pourazar, A. Muala, A. Blomberg, N. Mills, T. Sandström, D. Newby (Umeå, Sweden; Edinburgh, United Kingdom) 3445

## ROOM D203-204

## SESSION 385

10:45 - 12:45

## Oral Presentation: Understanding disease and drug mechanisms

Chairs: L. Donnelly (London, United Kingdom), G. Caramori (Ferrara, Italy)

- 10:45 The long-acting  $\beta_2$ -agonist formoterol re-establishes the anti-proliferative effect of glucocorticoids in asthmatic airway smooth muscle cells (ASMC)  
M. Roth, J. Zhong, C. S'ng, M. Tamm (Basel, Switzerland) 3446
- 11:00 A novel target of formoterol, a dual-specificity phosphatase DUSP4 on regulation of corticosteroid budesonide sensitivity  
Y. Kobayashi, N. Mercado, A. Miller-Larsson, P. Barnes, K. Ito (London, United Kingdom; Lund, Sweden) 3447
- 11:15 Tiotropium reduces established pulmonary inflammation in a 12 weeks cigarette smoke mouse model of COPD  
L. Wollin, F. Gantner, M. Pieper (Biberach, Germany) 3448
- 11:30 Effects of acclidinium on human lung fibroblast activation *in vitro*  
J. Milara, A. Serrano, T. Peiró, R. Guijarro, A. Gavalda, M. Miralpeix, E. Morcillo, J. Cortijo (Valencia, Barcelona, Spain) 3449
- 11:45 The pre-clinical pharmacology of the inhaled muscarinic antagonist GSK573719 predicts once-daily clinical dosing  
D. I. Lainé, M. A. Luttmann, J. J. Foley, C. J. Dehaas, C. J. Kotzer, M. Salmon, W. L. Rumsey (King of Prussia, United States of America) 3450
- 12:00 Synergistic bronchoprotective activity of the long-acting beta 2-agonist olodaterol with tiotropium (long-acting M<sub>3</sub> antagonist) and ciclesonide (inhaled steroid) on the ovalbumin-induced bronchoconstriction in anaesthetized guinea pigs  
T. Bouyssou, P. Casarosa, M. Pieper, A. Schnapp, F. Gantner (Biberach an der Riß, Germany) 3451

- 12:15 Mast cell generated cyclooxygenase products protect from airway hyperresponsiveness in a model of chronic asthma  
B. Fuchs, L. Sjöberg, C. Möller Westerberg, M. Ekoff, L. Swedin, S. E. Dahlén, M. Adner, G. Nilsson (Stockholm, Sweden) 3452
- 12:30 Antitussive effect of (-) menthol mediated by nasal trigeminal TRPM8 receptors  
J. Plevkova, B. J. Canning, I. Poljacek, M. Brozmanova, M. Tatar (Martin, Slovakia; Baltimore, United States of America) 3453

ROOM G102-103

SESSION 386

10:45 - 12:45

**Poster Discussion: Obstructive sleep apnoea as a comorbidity****Chairs: R. Silke (Dublin, Ireland), L. Grote (Gothenburg, Sweden)**

- P3454 Optimizing the screening of OSA in patients undergoing bariatric surgery  
M. Gasa, N. Salord, A. M. Fortuna, M. Mayos, J. M. Montserrat, C. Monasterio (Hospitalet de Llobregat, Barcelona, Spain)
- P3455 Is lung transplantation a cause of sleep apnea hypopnea syndrome? Preliminary data  
I. Escribano Gimeno, M. J. Díaz de Atauri, T. Díaz Cambriles, A. De Pablo Gafas, V. Pérez Gonzalez, A. López Encuentra (Madrid, Spain)
- P3456 Obstructive sleep apnea syndrome (OSAS) and asthma in a general Norwegian population  
T. Jonassen, T. Eagan, S. Lehmann (Bergen, Norway)
- P3457 Sleep disordered breathing in Prader Willi syndrome post recombinant human growth hormone therapy  
A. K. Pugalenti, S. Suresh, P. Wales, G. Williams, M. Harris (South Brisbane, Australia)
- P3458 Periodic breathing and oxygenation pattern depending on severity of bronchopulmonary dysplasia  
N. Petrova, I. Dobrodeeva, Y. Petrenko, N. Shabalov, V. Lubimenko (Saint-Petersburg, Russian Federation)
- P3459 Effects of sleep disordered breathing, asthma and socio-economic status on behavioural parameters in children  
Y. Gokdemir, R. Ersu, A. Rodopman Arman, P. Ay, A. Topuzoglu, F. Torlak, B. Karadag, F. Karakoc (Istanbul, Turkey)
- P3460 Sleep disordered breathing, asthma and socio-economic status in children: How do they interact?  
Y. Gokdemir, R. Ersu, P. Ay, A. Topuzoglu, A. Arman, C. Kalafat, B. Karadag, F. Karakoc (Istanbul, Turkey)
- P3461 Obstructive sleep apnea syndrome and insomnia: The development of insomnia symptoms with CPAP treatment  
X. L. Nguyễn, D. Rakotonanahary, J. Chaskalovic, B. Fleury (Paris, France; Ariel, Israel)
- P3462 Are sleep, nocturnal breathing and daytime performance impaired at moderate altitude?  
T. D. Latshang, C. M. Lo Cascio, K. Stadelmann, N. Tesler, A. C. Stöwhas, P. Achermann, R. Huber, M. Kohler, K. E. Bloch (Zurich, Switzerland)
- P3463 Prevalence of thyroid disease in patients with obstructive sleep apnea  
A. BaHamam, M. Sharif, A. Jammah, S. Bahammam (Riyadh, Saudi Arabia)
- P3464 Isolated nocturnal hypoxia in sickle cell disease (SCD)? Is it initial feature or separate entity?  
N. Maddekar, R. Saha, B. Jayaraman, T. Yeghen, T. P. Toma (London, United Kingdom)
- P3465 Correlation between intermittent nocturnal hypercapnia and depressive symptoms in patients with obstructive sleep apnea syndrome  
R. Bilyukov, T. Mondeshki, R. Cherneva, D. Petrova, O. Georgiev (Sofia, Bulgaria)
- P3466 CPAP therapy in idiopathic pulmonary fibrosis patients with obstructive sleep apnea  
I. Bouloukaki, C. Mermigkis, D. Mermigkis, V. Elina, E. Tzortzaki, E. Mauroudi, N. Sifakas, S. Schiza (Heraklion, Athens, Greece)
- P3467 The effect of concomitant COPD on obstructive sleep apnea syndrome severity and sleep structure  
A. Fidan, B. Salepci, N. Kiral, E. Torun, S. Cömert, G. Saraç, A. Altin, B. Çağlayan (Istanbul, Turkey)
- P3468 Are upper airways resistance syndrome and obstructive sleep apnea a side-effect of oral cancer therapy?  
S. P. Tandon, A. Khutarkar, S. Ansari, M. Khale, S. K. Rajan, J. Deodhar, J. P. Agarwal, P. Chaturvedi, P. Pai, D. Chaukar, R. Havaladar, S. Laskar, P. Yadav, A. K. D'Cruz (Mumbai, India)
- P3469 Microparticles from OSA patients induce hyper-reactivity through up-regulation of pro-inflammatory proteins  
S. Tual-Chalot, K. Fatoumata, P. Priou, W. Trzepizur, C. Contreras, D. Prieto, M. C. Martinez, F. Gagnadoux, R. Andriantsitohaina (Angers, France; Madrid, Spain)
- P3470 Obstructive sleep apnea syndrome in non-arteritic anterior ischemic optic neuropathy  
J. Vale, V. Melo, E. Silva, C. Sousa, I. Gil, R. Faria, A. Sánchez Serrano, J. Arêde, A. Simões Torres (Viseu, Portugal)
- P3471 Sexual dysfunction (SD) in obese women: Is there a role for obstructive sleep apnea?  
F. Fanfulla, A. Camera, P. Fulgoni, L. Chiovato, R. E. Nappi (Pavia, Italy)

SLEEP

TUESDAY  
27

## TUESDAY SEPTEMBER 27

ROOM G104-105

SESSION 387

10:45 - 12:45

**Poster Discussion: Challenges in chronic disease management: helping individuals with chronic lung disease remain stable****Chairs: D. Janssen (Horn, The Netherlands), R. S. Goldstein (Toronto, On, Canada)**

- P3472 Late-breaking abstract: Comparison of respiratory symptoms in chronic pulmonary obstructive disease and restrictive ventilatory impairment according to disease stage: The PLATINO study in Latin America  
J. Marchioro, N. Nonato, O. Nascimento, F. Rosa, J. R. Jardim, A. Camilier, R. Padilla, J. C. Garcia, M. Montes de Oca, C. Talamo, C. Lisboa, M. V. Lopez, B. Celli (São Paulo, Brazil)
- P3473 Mobile device usability to support chronic obstructive pulmonary disease management  
A. Arbilla, A. Barberan, D. A. Rodriguez, Y. Torralba, J. Vilaro, J. Roca (Barcelona, Spain)
- P3474 Access and use of communication technologies in patients with chronic obstructive pulmonary disease  
A. Barberan, A. Arbilla, J. Vilaro, D. A. Rodriguez, Y. Torralba, I. Blanco, D. Fonollosa, M. Bajet, L. Solanell, A. Alonso, J. A. Barbera, J. Roca (Barcelona, Spain)
- P3475 Evaluation of a web based home training program for COPD patients: A controlled trial  
S. Jansen-Kosterink, R. Huis in 't Veld, D. Wever, H. Hermens, M. Vollenbroek-Hutten (Enschede, The Netherlands)
- P3476 Fit for flight? An investigation into awareness of air travel recommendations among patients with respiratory disease  
A. Sylvan, I. Webster (Manchester, Bolton, United Kingdom)
- P3477 Air travel and COPD: Exercise SpO<sub>2</sub> and walking distance as predictors for in-flight desaturation  
A. Edvardsen, A. Akerø, C. C. Christensen, M. Ryg, O. H. Skjønberg (Hakadal, Oslo, Norway)
- P3478 Deployment of integrated care services for patients with long-term oxygen therapy (LTOT): Role of frailty  
C. Hernandez, E. Duran-Tauleria, S. Valls, J. Aibar, J. Sarroca, N. Soler, I. de Godoy, V. Castello, A. Agusti, J. Roca (Barcelona, Spain)
- P3479 Development of a comorbidity index that reflects health-related quality of life in patients with COPD  
A. Frei, P. Muggensturm, L. Siebeling, M. Zoller, C. Boyd, G. ter Riet, M. Puhan (Zurich, Switzerland; Amsterdam, The Netherlands; Baltimore, United States of America)
- P3480 Prevalence of dyspepsia in COPD patients: Experience in a large Canadian cohort  
G. Andréanne, C. Geneviève, P. Claude (Montréal, Montréal, Canada)
- P3481 Three-year follow-up study of inflammatory markers in chronic obstructive pulmonary disease  
R. Ferrari, S. Tanni, L. Caram, C. Corrêa, C. Corrêa, R. Martin, I. Godoy (Botucatu, Brazil)
- P3482 A qualitative study of self-management in COPD: Attitudes and priorities of patients for making health behaviour changes  
J. Walters, H. Cameron-Tucker, H. Courtney-Pratt, R. Wood-Baker, A. Robinson, J. Scott, P. Turner, M. Nelson, E. H. Walters (Hobart, Australia)
- P3483 Assessment of self-management needs among patients with COPD  
D. Coultas, K. Wortz, A. Cade, F. Su, B. Jackson, S. Suzuki, K. Lo, K. Singh, S. Bae (Tyler, Ft. Worth, United States of America)
- P3484 The views and attitudes of patients, carers and healthcare professionals on nutrition in COPD  
M. Kyi, S. Forster, A. Tod, J. Cooke, T. Rogers, S. Parker (Doncaster, Sheffield, United Kingdom)
- P3485 Muscle regrowth in COPD patients induced by anabolic steroids is amplified by systemic glucocorticoids (GC): A potentiating interaction between GC and IGF-1?  
A. M. W. J. Schols, N. A. M. Pansters, R. C. J. Langen (Maastricht, The Netherlands)
- P3486 The effects of nutritional support with omega-3 rich diets on respiratory functions, exercise capacity and quality of life in stable COPD  
S. Metin, N. Ucar, S. Akpinar, G. Kiziltan, M. Saka, T. Sipit (Ankara, Turkey)
- P3487 Association of weight loss in COPD patients with low body mass index on outcomes  
E. Rutten, R. Casaburi, M. Watkins, N. Locantore, E. Wouters (Horn, The Netherlands; Torrance, United States of America)
- P3488 Hypoxia altitude simulation test (HAST): Arterial blood gases or pulse oximetry?  
A. Edvardsen, A. Akerø, C. C. Christensen, M. Ryg, O. H. Skjønberg (Hakadal, Oslo, Norway)
- P3489 Ambulatory care of patients with bronchial asthma participating in a German disease management program  
S. Groos, J. Kretschmann, B. Hagen, L. Altenhofen (Cologne, Germany)

ROOM G106-107

SESSION 388

10:45 - 12:45

**Poster Discussion: Insight into mechanisms of respiratory infections****Chairs: A. Papi (Ferrara, Italy), G. Dimopoulos (Athens, Greece)**

- P3490 LSC 2011 Abstract (winner of the best poster presentation award): The role of IL-25 in rhinovirus-induced asthma exacerbations  
J. Beale, N. Bartlett, S. L. Johnston (United Kingdom)
- P3491 Pulmonary viral infection in hematologic patients with and without stemcell transplantation  
L. Junker, J. Halter, A. Dumoulin, D. Stolz, D. Heim, M. Stern, C. Bucher, J. Passweg, H. Hirsch, M. Tamm (Basel, Switzerland)

- P3492 Impaired innate immunity to rhinovirus in severe asthmatic children  
M. Edwards, N. Regamey, M. Vareille, E. Kieninger, A. Gupta, C. Bossley, A. Bush, S. Johnston (London, United Kingdom; Bern, Switzerland)
- P3493 Tyrosine sulfation in the N-terminal domain of human C5aR is necessary for high-affinity binding of chemotaxis inhibitory protein of staphylococcus aureus  
Z. Liu, A. Wang, G. Du, J. Gao (Beijing, China)
- P3494 shRNAs significantly reduce the replication of RSV in vitro  
M. Khaitov, I. Shilovsky, D. Mazurov, E. Faizuloev (Moscow, Russian Federation)
- P3495 Novel narrow spectrum kinase inhibitors inhibit rhinovirus replication via enhancement of interferon expression in nasal epithelial cells of atopic and non-atopic patients  
M. Contoli, K. Ito, D. Poletti, A. Pastore, A. Papi (Ferrara, Italy; London, United Kingdom)
- P3496 Cigarette smoke extract increases the adhesion receptor for *S. pneumoniae* in vitro  
N. Mushtaq, I. Dickson, C. B. Xu, L. Edvinsson, J. Grigg (London, United Kingdom; Lund, Sweden)
- P3497 Assessment of tracheal tube biofilm translocation during mechanical ventilation and lung injury  
G. Li Bassi, L. Fernández-Barat, J. D. Martí, M. Rigol, L. M. Saucedo, V. Giunta, M. Esperatti, N. Luque, I. Roca, L. Muñoz, M. Ferrer, J. Vila, F. Blasi, A. Torres (Barcelona, Spain; Milan, Italy)
- P3498 Detection of linezolid in endotracheal tube biofilm of ventilated pigs with methicillin-resistant *staphylococcus aureus* (MRSA) pneumonia  
L. Fernández-Barat, M. Ferrer, L. Guerrero, D. Soy, J. Vila, G. Li Bassi, J. M. Sierra, L. M. Saucedo, P. Martínez-Olondris, M. Rigol, M. Esperatti, N. Luque, J. D. Martí, A. Torres (Barcelona, Spain)
- P3499 Moderate aerobic exercise training attenuates inflammatory response to *streptococcus pneumoniae* in mice  
C. Olivo, M. L. Oliveira, E. Miyagi, F. Almeida, P. Arantes, P. Ho, F. Lopes, M. Martins (São Paulo, Brazil)
- P3500 Different modes of allergen – Rhinovirus interaction control chemokine production  
N. Bartlett, N. Glanville, R. Walton, S. Johnston (London, United Kingdom)
- P3501 An anti-human ICAM-1 antibody inhibits human rhinovirus infection in the mouse model of human major group rhinovirus infection  
S. Traub, A. Carruthers, R. Dunmore, L. Gogsadze, N. W. Bartlett, W. Hao, Q. Zhu, K. Bernard, M. Dymond, A. Leishman, A. Humbles, I. K. Anderson, R. Kolbeck, M. Sleeman, T. Wells, S. L. Johnston (London, Cambridge, Charnwood, United Kingdom; Gaithersburg, United States of America)
- P3502 Rhinovirus infection upregulates SLPI in macrophages  
R. Sotero, P. Mallia, J. Footitt, A. Nikonova, J. Ho, A. Telcian, M. Khaitov, R. Maselli, G. Pelaia, S. Johnston (London, United Kingdom; Catanzaro, Italy; Moscow, Russian Federation)
- P3503 Potential synergism of drugs with anti-viral and pulmonary oedema clearance activity may be advantageous for influenza patients  
H. Fischer, B. Fischer, S. Tzozos, H. Pietschmann, R. Lucas (Vienna, Austria; Augusta, United States of America)
- P3504 Toll-like receptor (TLR)-signaling mediates enhanced inflammatory effects in coinfections of viral and bacterial respiratory pathogens in human lung tissue – A new approach to the pathogenesis of COPD exacerbations?  
K. Rohmann, E. Chen, J. Rupp, T. Goldmann, D. Droemann, K. Dalhoff (Luebeck, Borstel, Germany; Hangzhou, China)
- P3505 Gamma/delta T cells regulate airways disease during rhinovirus-induced asthma exacerbations  
N. Glanville, N. Bartlett, S. Message, R. Walton, S. Johnston (London, United Kingdom)
- P3506 Comparison of respiratory virus infection between human nasal epithelial cell monolayer and air-liquid interface 3D culture  
K. Ito, S. Huang, S. Constant (London, United Kingdom; Geneva, Switzerland)
- P3507 Enhanced platelet activating factor receptor (PAFR) expression in smoker airways  
S. S. Sohal, I. S. Mudway, S. Weston, J. Grigg, H. Walters (Hobart, Australia; London, United Kingdom)

ROOM E104-106

SESSION 389

10:45 - 12:45

**Poster Discussion: Phenotyping and monitoring of airway diseases****Chairs: A. Ten Brinke (Molenend, The Netherlands), B. Balbi (Veruno, Italy)**

- P3508 Bronchoprovocation challenge testing – The estimation of FEV1 decline  
B. Balkova, B. Dlouha, P. Klusackova, J. Lebedova, L. Hurtova (Prague, Czech Republic)
- P3509 Small airways function in allogeneic hematopoietic stem cell transplant recipients worsens over time and is correlated with change in chronic GVHD grade  
S. Lahzami, R. E. Schoeffel, V. Pechey, C. Reid, M. Greenwood, C. M. Salome, N. Berend, G. King (Sydney, Australia; Lausanne, Switzerland)
- P3510 Cough reflex sensitivity during acute viral upper respiratory tract infection (common cold)  
P. Dicipingaitis, A. Tibb, D. Hull, A. Qu (Bronx, Mason, United States of America)
- P3511 Gastro-oesophageal reflux disease, upper gastro-intestinal motility and autonomic function in adult asthmatics  
D. L. Amarasiri, A. Pathmeswaran, H. J. de Silva, C. D. Ranasinha (Ragama, Sri Lanka; Ragama, South Africa)
- P3512 Can asthma control test (ACT) replace a global assessment of asthma control according to GINA guidelines?  
L. Melosini, F. L. Dente, E. Bacci, M. L. Bartoli, A. Di Franco, F. Novelli, M. Latorre, V. Barbara, P. Pierluigi (Pisa, Italy)

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## TUESDAY SEPTEMBER 27

- P3513 Utility of the Hull airways reflux questionnaire in the assessment of patients in the acute admissions unit  
A. Morice, J. Spriggs, A. Bell (Cottingham, United Kingdom)
- P3514 Investigating change in the COPD assessment test (CAT) within  $\alpha$ -1 antitrypsin deficiency (A1ATD)  
R. Edgar, D. Griffiths, E. Sapey, R. Stockley (Birmingham, United Kingdom)
- P3515 Associations between BODE index and systemic inflammatory biomarkers in COPD  
E. Gaki, K. Kontogianni, A. I. Papaioannou, P. Bakakos, K. I. Gourgoulis, K. Kostikas, M. Alchanatis, S. Papiris, S. Loukides (Athens, Larisa, Greece)
- P3516 Different trends of health-related quality of life in asthma and COPD  
J. Koskela, H. Kupiainen, W. Mazur, A. Lindqvist, V. Kinnula, J. Pitkaniemi, T. Laitinen (Helsinki, Turku, Finland)
- P3517 Validity of an automated telephonic system to assess exacerbation rates in prospective clinical COPD studies  
E. Bischoff, L. Boer, J. Molema, R. Akkermans, C. van Weel, J. Vercoulen, T. Schermer (Nijmegen, The Netherlands)
- P3518 Association of the transfer coefficient (Kco) with emphysema progression in heavy smokers  
F. Mohamed Hoessein, P. Zanen, B. van Ginneken, R. van Klaveren, J. W. Lammers (Utrecht, Rotterdam, The Netherlands)
- P3519 Abnormal heart rate recovery and chronotropic incompetence on submaximal exercise in COPD  
M. Gupta, V. Bansal, S. Chhabra (New Delhi, India)
- P3520 Association of systemic inflammation with clinical recovery in patients with acute exacerbation of COPD  
A. Mohan, D. Prasad, A. Sharma, R. Guleria, S. K. Sharma (New Delhi, India)
- P3521 Bacterial profile of acute infectious exacerbations of chronic obstructive pulmonary disease requiring hospitalization in Greece  
N. Rovina, E. Dima, G. Papadaki, P. Konstantoulakis, E. Filiou, T. Anagnostakos, C. Roussos, M. Alchanatis, N. Koulouris (Athens, Greece)
- P3522 Chronic obstructive pulmonary disease at the cleanup workers at Chernobyl accident per clinical and instrumental indicators at the remote period after low-dose radiation exposure  
K. Bazyka, V. Sushko, L. Shvayko (Kiev, Ukraine)
- P3523 Genetic association analysis of functional impairment of chronic obstructive pulmonary disease in a north Chinese Han population  
L. An, T. Yang, Y. Lin, C. Wang (Beijing, China)
- P3524 Validation of a (semi)-automatic measurement- and control platform for centralized, simultaneous electronic nose (eNose) analyses in multi-centre trials  
P. Brinkman, M. van der Schee, N. Fens, A. Wagener, S. Hashimoto, H. Knobel, T. Vink, P. Montuschi, G. Pennazza, M. Santonico, A. D'Amico, S. Fowler, F. De Jongh, P. Sterk, U-BIOPRED Study (Amsterdam, Eindhoven, The Netherlands; Rome, Italy; Manchester, United Kingdom)
- P3525 Circadian rhythm of circulating microparticles in patients with obstructive sleep apnea  
L. Kunos, A. Bikov, E. Pallinger, G. Losonczy, D. Bartusek, A. Kis, G. Horvath, Z. Komlosi (Budapest, Hungary)

ROOM E102

SESSION 390

10:45 - 12:45

**Poster Discussion: Treatment beyond inhalers: endoscopic lung volume reduction****Chairs: P. Shah (London, United Kingdom), D. Slebos (Groningen, The Netherlands)**

- P3526 Late-breaking abstract: Prevalence of emphysema heterogeneity measured with thoracic computed tomography soft in combination with collateral ventilation assessment to plan endoscopic volume reduction  
C. Pison, A. Jankowski, S. Quétant, M. Jondot, C. Chérion, G. Ferretti, W. Aniwidyaningsih (Grenoble, France; Jakarta, Indonesia)
- P3527 6-month follow-up in patients with advanced upper lobe predominant heterogeneous emphysema treated with endobronchial lung sealant therapy  
F. Herth, R. Eberhardt, A. Valipour, F. Stanzel, R. Bonnet, J. Behr, C. Marquette, M. Kramer (Heidelberg, Hemer, Bad Berka, Bochum, Germany; Vienna, Austria; Nice, France; Petah-Tikva, Israel)
- P3528 Physiological consequence of lower vs upper lobe lung volume reduction in patients with advanced emphysema  
E. Ingenito, L. Tsai (Boston, United States of America)
- P3529 Effect of fissure integrity on the efficacy of bronchoscopic lung volume reduction therapy using a peripheral acting tissue sealant in patients with advanced upper lobe predominant emphysema  
H. Magnussen, A. M. Kirsten, F. Herth, R. Eberhardt, F. Stanzel, R. Bonnet, J. Behr, M. Kramer (Grosshansdorf, Heidelberg, Hemer, Bad Berka, Bochum, Germany; Petah Tikva, Israel)
- P3530 Efficacy of bronchoscopic thermal vapor ablation and lobar fissure completeness  
D. Gompelmann, F. Herth, R. Eberhardt, S. Kesten, C. P. Heussel (Heidelberg, Germany; Tustin, United States of America)
- P3531 Associations of efficacy outcomes following bronchoscopic thermal vapor ablation (BTVA) for the treatment of heterogeneous emphysema  
P. Hopkins, F. J. F. Herth, G. Snell, K. Baker, C. Witt, M. H. Gotfried, A. Valipour, M. Wagner, F. Stanzel, J. Egan, S. Kesten, A. Ernst (Chermside, Melbourne, Australia; Heidelberg, Berlin, Nuremberg, Hemer, Germany; Iowa City, Phoenix, Tustin, Boston, United States of America; Vienna, Austria; Dublin, Ireland)

- P3532 Efficiency of the endo-bronchial volum reduction treatment for heterogeneous lower lobe predominant emphysema  
T. Ece, A. Erer, Z. Bingol (Istanbul, Turkey)
- P3533 Multistage endobronchial valve treatment of emphysema  
A. Macedo, E. do Valle, S. de Oliveira, S. Pinto Ribeiro, H. de Oliveira (Porto Alegre, Brazil)
- P3534 Management of severe COPD patients using bronchoscopic valve lung volume reduction: Preliminary results  
V. Parshin, M. Rusakov, D. Bazarov, Z. Kochneva, M. Filimonova (Moscow, Russian Federation)
- P3535 Endoscopic lung volume reduction (ELVR) with the "endobronchial Miyazawa valve" (EMV) in patients with severe emphysema, a prospective pilot study  
A. Lovis, I. Lemontzi, G. Galluccio (Lausanne, Switzerland; Roma, Italy)
- P3536 Comparison between Chartis® pulmonary assessment system detection of collateral ventilation vs. corelab CT fissure analysis in predicting atelectasis in emphysema patients treated with endobronchial valves  
D. Gompelmann, R. Eberhardt, D. J. Slebos, J. Ficker, F. Reichenberger, L. Ek, B. Schmidt, F. J. F. Herth (Heidelberg, Nuremberg, Giessen, Halle, Germany; Groningen, The Netherlands; Lund, Sweden)
- P3537 Bronchoscopic assessment of collateral ventilation predicts outcome of endoscopic lung volume reduction with valves  
W. Gesierich, N. Weber, A. Fertl, K. Häussinger (Gauting, Germany)
- P3538 One year follow-up of intrabronchial lung volume reduction in alpha-1-antitrypsin deficiency and severe emphysema  
G. Hillerdal, S. Mindus (Stockholm, Sweden)
- P3539 Endobronchial identification of persistent peripheral bronchopleural fistula with digital chest tube monitoring followed by treatment with endobronchial one-way valve implantation  
I. Firlinger, E. Stubenberger, M. Müller, O. Burghuber, A. Valipour (Vienna, Austria)
- P3540 Bronchoscopic injection of absolute ethanol in patients with persistent air leak from chest tube drainage  
C. H. Kim, A. L. Lim, I. G. Hyun (Seoul, Republic of Korea)
- P3541 Results of BODE index in the European multicenter study for the treatment of advanced emphysema with bronchial valves  
V. Ninane, C. Geltner, M. Bezzi, J. Gottlieb, L. Seijo, M. Munavvar, A. Rosell, S. Springmeyer, X. Gonzalez (Brussels, Belgium; Innsbruck, Austria; Brescia, Italy; Hannover, Germany; Pamplona, Barcelona, Spain; Preston, United Kingdom; Redmond, United States of America)
- P3542 High resolution computed tomography (HRCT) measurements of lobar volume reduction associated with bronchoscopic thermal vapor ablation (BTVA) in patients with heterogeneous emphysema  
A. Valipour, F. J. F. Herth, G. Snell, P. Hopkins, K. Baker, C. Witt, M. H. Gotfried, M. Wagner, F. Stanzel, J. Egan, S. Kesten, A. Ernst (Vienna, Austria; Heidelberg, Berlin, Nuremberg, Hemer, Germany; Melbourne, Chermshire, Australia; Iowa City, Phoenix, Tustin, Boston, United States of America; Dublin, Ireland)

ROOM D201-202

SESSION 391

10:45 - 12:45

### Poster Discussion: Molecular markers: diagnosis and management of malignant pleural effusions

**Chairs: B. Grigoriu (Iasi, Romania), I. Kalomenidis (Haidiari, Greece)**

- P3543 Expression of ERK2 and p38 $\alpha$  kinases in pleural mesothelial cells after exposure to asbestos fibers  
L. Teixeira, M. Acencio, R. Sales, F. Vargas, L. Antonangelo, C. Silva, K. Pereira, E. Marchi (São Paulo, Jundiai, Brazil)
- P3544 Prognostic value of promoter hypermethylation of tumor suppressor genes in malignant pleural fluid  
M. Botana-Rial, L. de Chiara, V. Leiro-Fernández, D. Valverde, C. Represas- Represas, A. I. González-Silva, A. Fernández-Villar (Vigo, Spain)
- P3545 Endogenous thrombin potential (ETP) in pleural effusions  
L. Teixeira, M. Colombini, F. Vargas, M. Acencio, R. Siqueira, C. Silva, V. Alvarenga, L. Antonangelo (São Paulo, Brazil)
- P3546 Diagnostic and prognostic significance of survivin levels in malignant pleural effusion  
D. Görgün, F. Seçik, K. Midilli, V. Akkaya, P. Yildiz (Istanbul, Turkey)
- P3547 The value of mesothelin in pleural effusion vs histology by medical thoracoscopy  
C. Manta, P. Ferro, E. Battolla, M. C. Franceschini, M. Sivori, S. Simonini, A. Bonotti, F. Fedeli, S. Roncella, P. A. Canessa (Sarzana, La Spezia, Pisa, Italy)
- P3548 Pleural fluid proGRP in the diagnosis of neuroendocrine - Related lung carcinomas  
L. Antonangelo, E. Terreri, L. Teixeira, D. Rosolen, L. Kulikowski, V. Alvarenga, R. Sales, F. Vargas (São Paulo, Brazil)
- P3549 Expression of matrix metalloproteinases (MMPs) and tissue inhibitors of metalloproteinases (TIMPs) in pleural effusions  
L. Teixeira, L. Antonangelo, J. Puka, R. Sales, M. Acencio, B. Silva, F. Vargas, E. Marchi (São Paulo, Jundiai, Brazil)
- P3550 Diagnostic yield of cytology in malignant pleural effusion: Impact of volume and repeated thoracentesis  
M. Solooki (Tehran, Islamic Republic of Iran)
- P3551 Clinical and laboratorial variables useful in the differential diagnosis of pleural effusions secondary to tuberculosis or lymphoma  
R. Sales, F. Vargas, L. Teixeira, R. Onishi, E. Genofre, C. Oliveira, L. Antonangelo (São Paulo, Brazil)
- P3552 Approach to undiagnosed exudative pleural effusion: The diagnostic yield of blind pleural biopsy  
M. Solooki, M. Malekmohamad (Tehran, Islamic Republic of Iran)

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## TUESDAY SEPTEMBER 27

- P3553 Diagnostic comparison between pleural fluid cytology (PFC), cellular block (CB) and pleural biopsy (PB) under visual guidance  
C. Fernandez, K. Czischke, G. Mordojovic, G. Cavada, M. Oyonarte, R. Gonzalez, A. Retamal (Santiago, Chile)
- P3554 The role of video-assisted thoracoscopy in the diagnosis of malignant pleural mesothelioma  
I. Novakov, S. Novakova, J. Peshev, M. Pirogowa (Plovdiv, Bulgaria)
- P3555 Diagnostic thoracoscopy in suspected malignant disease of the pleura: Pleural nodularity justifies talc poudrage  
W. Harms, B. Schönhofer (Hannover, Germany)
- P3556 Review of respiratory physician inpatient pleural ultrasound service  
B. Khan, M. Mushtaq (Dartford, United Kingdom)
- P3557 Safety and efficacy of pleurodesis with thoracoscopic doxycycline poudrage in malignant pleural effusion  
M. Elnady, A. Sakr (Cairo, Egypt)
- P3558 Audit of chest drains for pleural effusions in a tertiary care centre  
R. Naseer, P. K. Plant, M. E. J. Callister (Leeds, United Kingdom)
- P3559 Efficacy of talc pleurodesis in patients with malignant pleural effusions  
I. Alfageme, N. Reyes, J. Gallego, J. Cotera, I. Caballero, D. Macias (Spain)
- P3560 A Dutch web-survey on management of malignant pleural effusions  
R. Boshuizen, A. Vincent, P. Kunst, S. Burgers, M. vd Heuvel (Amsterdam, The Netherlands)

HALL 2-1

SESSION 393

12:50 - 14:40

## Thematic Poster Session: COPD diagnosis

**Chairs:** T. Welte (Hannover, Germany), R. Breyer-Kohansal (Vienna, Austria), H. Olschewski (Graz, Austria), T. Bauer (Berlin, Germany)

- P3561 Should we use FEV1/FVC <0.70 or FEV1/FVC <LLN to identify subjects with a clinical history indicating COPD – Results from the population-based BOLD study in Salzburg, Austria  
B. Lamprecht, L. Schirnhöfer, B. Kaiser, S. Buist, M. Studnicka (Salzburg, Austria; Portland, United States of America)
- P3562 Longitudinal validation of clinical COPD phenotypes identified by cluster analysis  
P. R. Burgel, J. L. Paillasseur, D. Caillaud, I. Tillie-Leblond, P. Chanez, R. Escamilla, I. Court-Fortune, T. Perez, P. Carré, N. Roche (Paris, France)
- P3563 Clinical COPD questionnaire (CCQ) score and mortality  
J. Sundh, C. Janson, K. Lisspers, S. Montgomery, B. Ställberg (Örebro, Uppsala, Sweden)
- P3564 The “rapid decliner” as a COPD phenotype associated with predominant emphysema  
I. Cerveri, A. G. Corsico, A. Grosso, V. Ronzoni, B. Tripon, F. Albicini, F. Imberti, A. Foresi, C. Klersy, M. Luisetti (Pavia, Sesto San Giovanni, Italy)
- P3565 Can we assess COPD comorbidities by BODE index?  
A. Corlateanu, G. Montanari, V. Botnaru (Chisinau, Republic of Moldova; Modena, Italy)
- P3566 Cluster analysis revealed differences on quality of life and susceptibility to exacerbation between subpopulations of smokers including COPD  
H. Hayashi, T. Ishii, N. Kokuho, M. Kurahara, T. Motegi, K. Hattori, K. Yamada, K. Kamio, A. Gemma, K. Kida (Tokyo, Japan)
- P3567 Spirometry in UPLIFT®: Quality and reproducibility over time  
W. Janssens, D. Liu, S. Kesten, D. P. Tashkin, B. R. Celli, M. Decramer, ERS President 2011 (Leuven, Belgium; Ridgefield, Tustin, Los Angeles, Boston, United States of America)
- P3568 Discriminative characteristics of the CAT score in stable COPD patients  
E. Marchand, G. Maury (Yvoir, Belgium)
- P3569 Clinical-morphological changes in bronchial mucous membrane according to the III-IV COPD stages  
I. Ivakh, O. Myronenko (Dnipropetrovsk, Ukraine)
- P3570 Impairment of membranous and vascular components of pulmonary diffusion and plasma endothelin-1 in patients with liver cirrhosis with and without COPD  
S. Langwieler, T. Wex, M. Peter, J. Schreiber (Magdeburg, Magdeburg, Germany)
- P3571 Clinical characteristics of COPD with mild bronchiectasis  
M. Kurahara, N. Kokuho, H. Hayashi, T. Ishii, T. Motegi, K. Hattori, K. Yamada, K. Kamio, A. Gemma, K. Kida (Tokyo, Japan)
- P3572 Bronchial hyperresponsiveness as phenotypic feature of COPD  
I. Trofimenko, B. Chernyak (Irkutsk, Russian Federation)
- P3573 Skin autofluorescence is not a good marker for disease status in COPD  
P. Gopal, E. Rutten, N. Reynaert, N. Ten Hacken, E. Wouters (Maastricht, Horn, Groningen, The Netherlands)
- P3574 Association between comorbidities, disease severity and body mass index in COPD patients  
M. Knorst, J. Nunes, L. Ries, J. Valentini, L. Rech (Porto Alegre, Brazil)
- P3575 Features of mucous membrane changes of bronchial tree at patients with COPD  
T. Pertseva, I. Ivakh (Dnipropetrovsk, Ukraine)



- P3576 Gender difference in the perception of dyspnea in former smokers with COPD  
V. Koblizek, S. Pracharova, P. Papousek (Hradec Kralove, Czech Republic)
- P3577 Comorbidities associated with chronic obstructive pulmonary disease (COPD) – A clinical study  
G. Vattanatt, S. Adiyodi (Trichur, India)
- P3578 Evaluation of the gas exchange abnormalities in COPD patients with the use of capnometry  
Y. Feshchenko, L. Iashyna, S. Ishchuk (Kiev, Ukraine)
- P3579 The indices of body composition (IBC) in chronic obstructive pulmonary disease (COPD)  
A. Makarevich, S. Lemesheuskaya, N. Vasieljeva (Minsk, Republic of Belarus)
- P3580 Evaluation of different domains of the Saint George's respiratory questionnaire (SGRQ) according to the severity levels of chronic obstructive pulmonary disease (COPD)  
F. Athayde, R. Sampaio, B. Vieira, D. Vieira, R. Britto, V. Parreira (Belo Horizonte, Brazil)

## HALL 2-2

## SESSION 394

12:50 - 14:40

## Thematic Poster Session: COPD mechanisms

**Chairs:** H. Koller (Vienna, Austria), W. Pohl (Vienna, Austria), E. Russi (Zurich, Switzerland), H. Watz (Grosshansdorf, Germany)

- P3581 Fibroblast growth factor 23 (FGF23) and hypophosphatemia in patients with COPD  
M. Elsammak, A. Attia, M. Suleman (Dammam, Saudi Arabia)
- P3582 Low testosterone in chronic obstructive pulmonary disease  
E. Cojocaru, A. Turcanu, R. M. Bercea, C. Cojocaru (Iasi, Romania)
- P3583 Oxidative stress as common mechanism of inflammation in COPD and gastro-esophageal reflux disease  
A. Kolpakova, N. Maksimov, M. Solodenova, V. Tzukanov, T. Degtyareva (Krasnoyarsk, Russian Federation)
- P3584 The study of proton magnetic resonance spectroscopy on hippocampus in rats with chronic obstructive pulmonary disease  
X. Ling, Y. Lin (Nanjing, China)
- P3585 COPD: Different psychology status (PS) in the patients with different co-morbidity rate  
K. Gashynova (Dnipropetrovsk, Ukraine)
- P3586 Arterial hypertension (AH) and endothelial function (EF) in patients with COPD  
K. Gashynova, T. Pertseva, N. Yefimova (Dnipropetrovsk, Ukraine)
- P3587 The impact of comorbidities related to BMI in COPD patients  
C. Cabrera Lopez, J. Zagaceta, C. Cote, M. Divo, J. P. De Torres, J. M. Marín, C. Casanova, V. Pinto-Plata, J. Zulueta, B. Celli, S. Carrizo (Las Palmas de G.C., Pamplona, Zaragoza, Santa Cruz de Tenerife, Spain; Tampa, Boston, United States of America)
- P3588 Fibrinogen, health status and hospitalization in patients with moderate to severe COPD  
V. Hodgev, B. Marinov, R. Kalinov, L. Vladimirova-Kitova, F. Nikolov, S. Kostianev (Plovdiv, Bulgaria)
- P3589 Ego defense mechanisms in COPD: Impact on health-related quality of life and dyspnoea severity  
S. C. Albuquerque, E. R. Carvalho, R. S. Lopes, I. S. Marques, D. S. Macêdo, E. D. Pereira, T. N. Hyphantis, A. F. Carvalho (Fortaleza, Brazil; Ioannina, Greece)
- P3590 Heart rate variability during the night in chronic obstructive pulmonary disease  
R. Inchingolo, G. M. Corbo, G. A. Sgueglia, G. Lanza, S. Valente (Roma, Italy)
- P3591 Changes in bronchial mucous membrane depending on the stage of COPD (I, II)  
T. Pertseva, I. Ivakh, O. Plekhanova (Dnipropetrovsk, Ukraine)
- P3592 GERD and anxiety in patients with severe COPD  
S. Alsayed (Jeddah, Saudi Arabia)
- P3593 Is COPD a risk factor for thyroid disorders?  
L. Ciobanu, V. Maciuc, R. Costan, A. Gorga, P. A. Bobirca, S. Corduneanu (Iasi, Romania)
- P3594 Systemic inflammation and nutritive status in patients with COPD  
K. Gashynova (Dnipropetrovsk, Ukraine)
- P3595 Bone mineral density in patients with COPD depending on pulmonary function parameters  
O. Kharevich, I. Lapteva, A. Tomashevsky, N. Porahonko, N. Vasileva, V. Vadzianava (Minsk, Republic of Belarus)
- P3596 Alpha1-antitrypsin deficiency: An analysis of patient subgroups of the German registry  
C. Guttman, P. M. Lepper, M. Bachhuber, C. Herr, A. R. Koczulla, C. Vogelmeier, R. Bals (Homburg, Marburg, Germany)
- P3597 Vitamin D receptor polymorphisms and exacerbation frequency in COPD  
J. Quint, G. Donaldson, N. Wassef, J. Hurst, M. Thomas, J. Wedzicha (London, United Kingdom)
- P3598 Is there any correlation between apoptosis of the cells from bronchoalveolar lavage fluid (BALF) and the progression of chronic obstructive pulmonary disease (COPD)?  
A. Nowicka, H. Batura-Gabryel, M. Kaczmarek, J. Sikora, K. Swierkocki, A. Czyz (Poznan, Poland)
- P3599 The regional distribution of body fat mass (BFM) in men with chronic obstructive pulmonary disease (COPD)  
A. Makarevich, S. Lemiasheuskaya (Minsk, Republic of Belarus)

## TUESDAY SEPTEMBER 27

HALL 2-3

SESSION 395

12:50 - 14:40

**Thematic Poster Session: New insights in management of interstitial and vascular lung diseases****Chairs: M. Marvisi (Salsomaggiore Terme, Italy), U. Costabel (Essen, Germany)**

- P3600 Pulmonary features of autosomal dominant hyper-IgE syndrome [AD HIES]  
H. Dmenska, E. Heropolitanska, B. Pietrucha, E. Bernatowska (Warsaw, Poland)
- P3601 Is quantitative HRCT related with diagnostic yield of fiberoptic bronchoscopy in sarcoidosis?  
S. Akten, N. Kokturk, G. Erbas, B. Celik, H. Tuktas (Ankara, Turkey)
- P3602 Importance of fatigue measurement in sarcoidosis patients  
B. Gvozdenovic, V. Vucinic-Mihailovic, J. Marinkovic (Belgrade, Republic of Serbia)
- P3603 Sarcoidosis patients with cardiac involvement in the National Tuberculosis & Lung Diseases Research Institute in Warsaw, Poland – 3 years experience  
M. Martusewicz-Boros, A. Kempisty, E. Wiatr (Warsaw, Poland)
- P3604 Primary thoracic amyloidosis: Rare disease and hard diagnosis  
M. Loukil, N. Chaouch, N. Ben Salem, M. Zarrouk, S. Chikhrouhou, H. Racil, A. Ayadi, A. Chabbou (Ariana, Tunis, Tunisia)
- P3605 Tracheobronchopathia osteochondroplastica: End stage of tracheo bronchial amyloidosis  
H. Gharsalli, S. Azzabi, B. Ourari Dhahri, W. Feki, S. Rammeh Rommani, M. A. Baccar, J. Ben Ammar, M. Salah Said, L. El Gharbi, H. Aouina, H. Bouacha (Tunis, Tunisia)
- P3606 Acute cardiomyopathy in rheumatoid associated lung disease  
A. Manuel, T. Vale, C. Turnbull, C. McCabe, N. Qureshi, A. Nickol (Oxford, United Kingdom)
- P3607 Multiple pulmonary nodules in a patient with polyarteritis nodosa  
G. Chalifoux, I. Coiteux, C. Poirier (Montreal, Canada)
- P3608 Sarcoidosis patient: Do we need to perform plethysmography when spirometry and DLCO were done?  
P. Boros, M. Martusewicz-Boros, P. Quanjer, P. Enright, S. Wesolowski (Warsaw, Poland; Rotterdam, The Netherlands; Tucson, United States of America)
- P3609 Adverse drug reactions in a pulmonary teaching hospital: Incidence, pattern, seriousness, and preventability  
S. Baniyasi, F. Fahimi, M. Karimi (Tehran, Islamic Republic of Iran)
- P3610 Importance of cardiac biomarkers in the evaluation of acute pulmonary thromboembolism severity, mortality and complicated clinical course  
G. Sagcan, O. Arseven, G. Okumus, R. Gelisgen, H. Uzun (Istanbul, Turkey)
- P3611 Is utility of D-Dimer test undermined because of overuse in routine clinical practise?  
G. Marwah, H. Taylor, S. Selvaraj, S. Murphy (Hartlepool, United Kingdom)
- P3612 Are D-dimers requested appropriately in the emergency department? A retrospective audit  
A. Williams, A. Ashton (St. Helens, United Kingdom)
- P3613 Pulmonary embolism due to cardiac hydatid disease: Unusual complication of hydatid cyst  
W. Feki, B. Dhahri, H. Aouina, J. EL Ghoul, M. Hadiji, J. Ben Ammar, S. Azzabi, M. A. Baccar, L. El Gharbi, H. Bouacha (Tunis, Tunisia)
- P3614 Safety of out-patient investigations and management of suspected pulmonary embolism (PE)  
M. Zahid, M. Ogara, I. Shafiq, S. Mehmood, N. Bhatti (Bournemouth, United Kingdom)
- P3615 Lung function tests in patients suffering from chronic kidney insufficiency before and after hemodialysis  
M. Obradovic, L. Corkocic (Mladenovac, Belgrade, Republic of Serbia)
- P3616 Effect of bicarbonate versus acetate hemodialysis on respiratory functions in chronic renal failure patients  
M. Badawy, A. Taha, N. Mohamed (Sohag, Egypt)
- P3617 Pleuro-pulmonary changes in patients suffering from end-stage renal disease receiving regular hemodialysis  
R. El Wahsh, A. Zaki (Shebin El Kom, Egypt)
- P3618 Morphological features of the endobronchial microhemocirculation of nephrological patients  
S. Natalia, L. Yuriy, T. Sergey (Saint-Petersburg, Blagoveschensk, Russian Federation)
- P3619 Bronchiolitis obliterans as a first manifestation of rheumatoid arthritis – Case report  
S. Luca, V. M. Sandu (Iasi, Romania)

HALL 2-4

SESSION 396

12:50 - 14:40

**Thematic Poster Session: What do individuals know about their disease? Educational needs, the psychological impact of chronic respiratory disease and health-related quality of life****Chairs: J. Van Der Palen (Enschede, The Netherlands), J. Vercoulen (Venlo, The Netherlands)**

- P3620 Late-breaking abstract: Older COPD patients' requirements for eMonitoring and eCoaching: A user-centered study  
J. te Lintelo, M. van de Dijk (Hengelo, Enschede, The Netherlands)
- P3621 Assessing the educational component of pulmonary rehabilitation with the lung information needs questionnaire (LINQ)  
R. Fowler, K. Ingram, C. Nolan, P. Marns, A. Clark, M. Polkey, W. Man (Harefield, United Kingdom)

- P3622 Education and information for patients with bronchiectasis: What do patients want?  
K. Hester, P. McAlinden, A. De Soyza (Newcastle upon Tyne, United Kingdom)
- P3623 Knowledge deficits in COPD patients entering pulmonary rehabilitation  
C. Gijzen, E. Wouters, F. Franssen, D. Janssen, M. Spruit (Horn, Maastricht, The Netherlands)
- P3624 Fatigue components in COPD patients and controls using the FACIT-F scale; data from ECLIPSE study  
K. Al-Shair, H. Müllerova, N. Locantore, N. Hanania, A. Sharafkhaneh, E. Wouters, S. Rennard, J. Vestbo, on behalf of the Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) Study Investigators (Manchester, Uxbridge, United Kingdom; Houston, Omaha, United States of America; Maastricht, The Netherlands; Copenhagen, Denmark)
- P3625 Long-term changes in the COPD assessment test (CAT) after pulmonary rehabilitation  
P. Marns, K. Ingram, R. Fowler, C. Nolan, A. Clark, N. Hopkinson, M. Polkey, J. Canavan, W. Man (London, United Kingdom)
- P3626 CAT (COPD assessment test) as outcome parameter of pulmonary rehabilitation (PR) in COPD  
K. Schultz, O. Göhl, D. Stojanovic, M. Wittmann, J. Rudnik, M. Schwarze (Bad Reichenhall, Hannover, Germany)
- P3627 Changes in the CRQ, CAT and updated BODE index by pulmonary rehabilitation  
A. Stucki, Y. Van der Feijst (H'Schwendi, Switzerland)
- P3628 Determinants of health-related quality of life in patients with severe COPD  
F. M. E. Franssen, P. W. Jones, M. A. Spruit, M. Hartog, E. F. M. Wouters (Horn, The Netherlands; London, United Kingdom)
- P3629 Evaluation of quality of life instruments for COPD care and research  
S. Weldam, M. Schuurmans, R. Liu, J. W. Lammers (Utrecht, The Netherlands)
- P3630 Coping style and health status in COPD patients entering pulmonary rehabilitation  
A. Stoilkova, D. J. A. Janssen, M. A. Spruit, E. F. M. Wouters (Maastricht, Horn, The Netherlands)
- P3631 Relationship between quality of life, exercise capacity and disease severity in patients with chronic obstructive pulmonary disease  
M. M. C. Le Cheminant, G. Austin, C. Bastu, T. Win (Stevenage, United Kingdom)
- P3632 Quality of life evaluation in patients with alpha1-antitrypsin deficiency: A 3-year prospective study  
M. Carone, G. Bruletti, E. Bertella, G. Balestroni, N. Gatta, L. Corda, M. Luisetti, B. Balbi (Cassano delle Murge, Lumezzane, Veruno, Brescia, Pavia, Italy)
- P3633 Effect of gender on exercise capacity and hospital anxiety and depression scale (HADS) score following pulmonary rehabilitation  
D. Datta, R. ZuWallack (Farmington, Hartford, United States of America)
- P3634 Pulmonary rehabilitation, COPD assessment test and smoking cessation at smokers with COPD  
P. Postolache, O. Petrescu, I. O. Merisanu, L. Calin, L. Chelariu, O. C. Arghir, D. Husanu (Iasi, Constanta, Romania)
- P3635 Factors predicting clinically improved health status in COPD patients after pulmonary rehabilitation  
O. Bratås, G. A. Espnes, T. Rannestad, R. Walstad (Trondheim, Norway)
- P3636 Abnormal illness behaviour amongst COPD patients entering pulmonary rehabilitation  
P. Cafarella, M. Alyami, P. Frith, S. Quinn (Adelaide, Australia)
- P3637 Anxiety and affecting factors in pulmonary rehabilitation patients with chronic obstructive pulmonary disease during exacerbation  
O. Ozyemisci-Taskiran, A. Utkan, N. Kokturk, G. Kaymak Karatas (Ankara, Turkey)
- P3638 The impact of anxiety and depression on outcomes of pulmonary rehabilitation in COPD  
A. von Leupoldt, K. Taube, K. Lehmann, A. Fritzsche, H. Magnussen (Hamburg, Grosshansdorf, Germany)
- P3639 Quality of life (QoL) in asthma 1 year after pulmonary rehabilitation (PR)  
H. Lingner, D. Scheub, N. Djahangiri, M. Wittmann, K. Schultz (Hannover, Bad Reichenhall, Germany)

HALL 2-5

SESSION 397

12:50 - 14:40

### Thematic Poster Session: Challenges in rehabilitation: some old dilemmas revisited with some solutions?

**Chairs:** R. Gosselink (Leuven, Belgium), J. Williams (Leicester, United Kingdom), J. Alison (Killara, Australia)

- P3640 Late-breaking abstract: Bi-level positive airway pressure (Bipap) effects on regional distribution of lung ventilation in COPD  
P. Fazzi, R. Cristofani, A. d'Abrosca, M. S. Derlin, P. Paggiaro (Pisa, Italy)
- P3641 Late-breaking abstract: Efficacy of relaxation posture in patients with chronic obstructive pulmonary disease (COPD)  
T. Ichiba, T. Miyagawa, T. Kera, T. Tsuda, F. Kokubu (Hachiojishi, Yokohama, Moroyamacho, Kitakyusyu, Yokohama City, Japan)
- P3642 Maintenance programme after COPD pulmonary rehabilitation (PR): Differences in long-term BODE index between responders and non-responders  
P. Cejudo, G. Rodriguez Trigo, C. Puy, L. Martinez Indart, J. Bautista Galdiz, K. Bdeir, R. Vazquez Sanchez, A. Gorostiza, F. Ortega, F. Morante, E. Lopez Santamaria, M. Regueiro, M. R. Güell (Seville, Madrid, Barcelona, Bilbao, Castellón, A Coruña, Spain)

## TUESDAY SEPTEMBER 27

- P3643 Maintaining the benefits of pulmonary rehabilitation with a home exercise DVD – A feasibility pilot study  
A. L. Clark, K. A. Ingram, J. L. Canavan, R. P. Fowler, C. M. Nolan, P. L. Marns, M. I. Polkey, W. D. C. Man (Harefield, London, United Kingdom)
- P3644 Maintenance of long term benefits from an outpatient pulmonary rehabilitation programme in COPD  
F. Costa, L. Malagrino, S. Antonelli, C. De Simone, G. Decusatis, D. Nieri, S. Santerini, B. Vagagini, P. Paggiaro (Pisa, Italy)
- P3645 Long term pulmonary rehabilitation programs for chronic obstructive pulmonary disease (COPD). Two years follow-up  
G. Rodriguez-Trigo, P. Cejudo, C. Puy, J. B. Galdiz, K. Bdeir, A. Gorostiza, R. Vazquez Sanchez, E. Lopez de Santamaria, L. Martinez-Indart, F. Morante, M. Regueiro, G. Luis, O. Francisco, R. Güell (Madrid, Seville, Barcelona, Bilbao, Castellon, A Coruña, Spain)
- P3646 Rehabilitation of pulmonary dysfunction in patients with ankylosing spondylitis  
R. G. Dragoi, C. Avram, E. Amaricai, O. Suci, M. Dragoi (Timisoara, Romania)
- P3647 Complex outcomes of physical training in COPD patients  
N. Meshcheriakova, A. Belevsky, A. Cherniak (Moscow, Russian Federation)
- P3648 Prevalence of airflow obstruction according GOLD, ATS and ERS criteria in symptomatic ever-smokers referring to a pulmonary rehabilitation department  
E. De Mattia, A. Vaghi, I. Pessina, G. Pepe, B. Rho, N. Barbarito (Salice Terme, Garbagnate Milanese, Italy)
- P3649 Post-bronchodilator FVC determines pulmonary rehabilitation outcomes in patients with chronic obstructive pulmonary disease  
K. Velentzas, G. Christidou, M. Harikiopoulou, E. Theodorakopoulou, S. Dumitru, M. Andritsou, E. Kainis, A. Chronaiou, P. Demertzis, Z. Sardelis, E. Kosmas (Athens, Greece)
- P3650 Respiratory muscle strength and exercise tolerance before and after pulmonary rehabilitation in COPD patients  
A. Croitoru, D. Ionita, L. Marinescu, C. Stroescu, C. Tudose, S. Dumitrache-Rujinski, C. Toma, D. Bumbacea, D. Anghelescu, M. Bogdan (Bucharest, Romania)
- P3651 Thoracic mechanics in COPD patients before and after pulmonary rehabilitation  
A. Croitoru, D. Ionita, C. Stroescu, L. Marinescu, S. Dumitrache-Rujinski, C. Tudose, C. Toma, D. Bumbacea, D. Anghelescu, M. Bogdan (Bucharest, Romania)
- P3652 Asthma control (AC) 1 year after pulmonary rehabilitation (PR)  
H. Lingner, D. Scheub, N. Djahangiri, M. Wittmann, K. Schultz (Hannover, Bad Reichenhall, Germany)
- P3653 Quantification of smokers and smoking status among COPD patients, hospitalized for an exacerbation  
K. Ankjærgaard, T. Wilcke, H. J. Bendixen, C. Juhl (Copenhagen, Denmark)
- P3654 The effect of pulmonary rehabilitation toward expiratory airflow limitation in patients with chronic obstructive pulmonary disease  
W. Gu, R. Chen (Guangzhou, China)
- P3655 Handgrip strength according to gender and COPD severity  
L. Caram, R. Ferrari, C. Naves, M. Ambrozi, S. Tanno, A. Bertani, L. Coelho, I. Godoy (Botucatu, Brazil)
- P3656 Impact of obesity on pulmonary rehabilitation in COPD patients  
S. Aktas, P. Ergün, D. Kaymaz, E. Simsek, F. Sengül (Ankara, Turkey)
- P3657 Participants perspectives of pulmonary rehabilitation: The role of peer support  
A. Hardy, A. Coe (Halifax, Castelford, United Kingdom)
- P3658 Daily activity habits, energy conservation methods and activity training for patients with COPD. A qualitative study  
I. E. Sundfør, K. Heggdal (Hakadal, Oslo, Norway)
- P3659 Relationship between psychological well-being and lung health status in patients with bronchectasis  
L. Boussoffara, N. Boudawara, I. Hammami, A. Ben Saad, M. Sakka, J. Knani (Mahdia, Tunisia)

HALL 2-6

SESSION 398

12:50 - 14:40

**Thematic Poster Session: Imaging in oncology and infectious diseases****Chairs: H. Roberts (Toronto, Canada), J. Coolen (Leuven, Belgium)**

- P3660 Staging with FDG-PET/CT influences stage-specific survival in non small cell lung cancer (NSCLC)  
K. Zimmermann, S. Tönnies, D. Misch, C. Boch, N. Schoenfeld, G. J. Förster, J. Kollmeier, T. Bauer (Berlin, Germany)
- P3661 CT-guided transthoracic breast lesion location wire implantation for small nonpalpable pulmonary nodules  
B. Ilsen, F. Vandenbroucke, J. de Mey (Brussels, Belgium)
- P3662 Imaging techniques in the evaluation of solitary pulmonary nodules (SPNs)  
M. Dabrowska, R. Krenke, P. Korczynski, M. Maskey-Warzechowska, M. Zukowska, J. Kunikowska, W. Kupis, R. Chazan (Warsaw, Poland)
- P3663 Prediction of the lung adenocarcinoma metastatic spread according to initial CT examination  
T. Milosavljevic, A. Ivkovic (Vranje, Nis, Republic of Serbia)
- P3664 CT guided biopsy of thoracic lesions  
M. Bakhshayeshkaram, P. Graili, S. Zahirifard (Tehran, Islamic Republic of Iran)
- P3665 An unusual opacity in lung lymphoma  
N. Bencharif, G. Malki, H. Douagui (Algiers, Algeria)

- P3666 Lymphoma diagnosis on computed tomography guided needle aspiration and biopsy  
M. Bakhshayeshkaram, P. Graili, S. Zahirifard (Tehran, Islamic Republic of Iran)
- P3667 Regional ventilation distribution in experimental sub-lobar acute lung injury  
G. Elke, M. K. Fuld, A. F. Halaweish, N. Weiler, E. A. Hoffman, I. Frerichs (Kiel, Germany; Iowa City, United States of America)
- P3668 CT findings in hantavirus pneumonia outbreak in children  
A. Ivkovic, T. Milosavljevic, Z. Radovanovic (Nis, Vranje, Republic of Serbia)
- P3669 Radiological features of pneumocystis pneumonia (PCP) without HIV  
N. Asai, Y. Ohkuni, R. Matsunuma, Y. Otsuka, N. Kaneko (Kamogawa, Japan)
- P3670 Primary versus acquired multidrug-resistant tuberculosis: Which are the true features of multidrug-resistant tuberculosis itself on thin-section CT  
I. Song, M. J. Chung, W. Koh, C. A. Yi, K. S. Lee (Seoul, Republic of Korea)
- P3671 Second year of H1N1 influenza: CT of the rare complications  
A. Ivkovic, T. Milosavljevic, Z. Radovanovic (Nis, Vranje, Republic of Serbia)
- P3672 Sarcoidosis, an everyday practice concern: A CT study  
S. Kahkoueei, S. Dianati Maleki, S. Rostamzadeh (Tehran, Islamic Republic of Iran)
- P3673 Pulmonary hydatidosis mimicking metastatic malignancy  
S. Aouadi, I. Bachouche, S. Maalej, M. Mjid, M. Bourguiba, A. Ben Kheder, I. Drira (Ariana, Tunisia)
- P3674 Does it matter who requests HRCT scans?  
W. Kent, A. Youzguin (Southport, United Kingdom)
- P3675 Lung tularemia in patients with tuberculosis presented by CT  
A. Ivkovic, T. Milosavljevic, Z. Radovanovic (Nis, Vranje, Republic of Serbia)
- P3676 Interpretation of chest radiographs from children with lower respiratory tract infections  
M. Edwards, Z. Lawson, S. Morris, A. Evans, S. Harrison, J. Crocker, C. Powell (Cardiff, United Kingdom)
- P3677 Usefulness of vibration response imaging (VRI) for pneumonia patients  
K. H. Yoo, K. Y. Lee, S. J. Kim, W. D. Kim, H. J. Kim, E. Park (Seoul, Republic of Korea)
- P3678 Fungus ball diagnosed on computed tomography (CT) guided needle biopsy of thoracic lesions  
M. Bakhshayesh, P. Graili, S. Zahirifard (Tehran, Islamic Republic of Iran)
- P3679 Hydatid cyst diagnosed on computed tomography (CT) guided needle biopsy of thoracic lesions  
M. Bakhshayeshkaram, P. Graili, S. Zahirifard (Tehran, Islamic Republic of Iran)

HALL 2-7

SESSION 399

12:50 - 14:40

**Thematic Poster Session: The basic and the future: pure diagnostic or dedicated wavelengths play**

**Chairs: L. Freitag (Essen, Germany), B. Escarguel (Toulon, France)**

- P3680 The comparison of the two methods of hot biopsy and forceps biopsy in diagnosing endobronchial tumoral lesions  
H. Jabbarjarani, M. Samet, A. Kiani, N. Sheikhi (Tehran, Islamic Republic of Iran)
- P3681 Comparison of hot versus cold biopsy forceps in the diagnosis of endobronchial lesions  
S. Firouzbakhsh, S. Seifirad, R. Dinparast, S. Taslimi, S. Azari, E. Safavi (Tehran, Islamic Republic of Iran)
- P3682 Evaluation of lung biopsy techniques for diagnosis of idiopathic interstitial pneumonias  
N. Abhyankar, J. Jain, A. Tambolkar (Pune, India)
- P3683 Serial transbronchial biopsies in patients with lung cancer after radiation therapy  
G. Karpathiou, V. Mihailidis, A. Giatromanolaki, M. Koukourakis, P. Steiropoulos, E. Sivridis, D. Bouros, M. Froudarakis (Alexandroupolis, Greece)
- P3684 The combined conventional bronchoscopic methods are still useful in diagnosis of sarcoidosis  
L. Kasper, K. Sladek, J. Soja, M. Duplaga, F. Mejza, M. Mikos, P. Grzanka, B. Papla, R. Tomaszewska (Cracow, Poland)
- P3685 Safety and efficacy of outpatient bronchoscopy in lung transplant recipients: A single centre retrospective analysis  
J. Rademacher, H. Suhling, C. Düsberg, T. Fühner, F. Länger, T. Welte, J. Gottlieb (Hannover, Germany)
- P3686 French national survey by the GELF on flexible bronchoscopy, patients, indications, results and complications  
B. Escarguel, M. Febvre, V. Trosini-Desert, J. M. Vergnon, GELF Groupe d'Endoscopie de Langue Francaise (Marseille, Paris, Saint-Priest-en-Jarez, France)
- P3687 Endobronchial ultrasound using a guide sheath for peripheral pulmonary lesions: Experience from the first year  
S. Charoentanyarak, A. Wattanatham, A. Lertamornprong, P. Hansiriphan (Bangkok, Thailand)
- P3688 Efficacy of transbronchial biopsies without fluoroscopy control in diagnostics sarcoidosis  
I. Sivokozov, O. Lovacheva, E. Shmelev (Moscow, Russian Federation)
- P3689 Evaluation on the factors affecting transbronchial lung biopsy results  
H. Jabbarjarani, A. Kiani, N. Sheikhi, M. Sadr, A. Eslaminejad (Tehran, Islamic Republic of Iran)
- P3690 Diagnostic value of the bronchoscopy in the focal pulmonary malignant lesions  
R. M. Diaz Campos, R. Garcia Lujan, R. Alonso Moralejo, E. De Miguel Poch (Madrid, Spain)
- P3691 Endobronchial ultrasound in the diagnosis of peripheral pulmonary lesions  
L. Fusco, F. Varone, A. Smargiassi, R. Inchingolo, D. Magnini, A. Mulè, G. Rindi, S. Valente (Roma, Italy)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P3692 Combined endoscopic evaluation of the effectiveness of neoadjuvant chemotherapy of NSCLC using autofluorescence and spectroscopic methods  
Y. Kulakova, A. Arseniev, E. Levchenko, A. Barchuk, A. Akopov (Saint-Petersburg, Russian Federation)
- P3693 Changes of the pulmonary arteries in patient with pulmonary hypertension: Using optical coherence tomography  
E. Belyatko, N. Danilov, Y. Machin, I. Chazova, I. Chazova (Moscow, Russian Federation)
- P3694 Acriflavine-aided confocal laser-endomicroscopy for evaluation of central airway lesions  
S. Zirlik, M. Vieth, J. Schubert, M. Frieser, K. Hildner, M. Neurath, F. Fuchs (Erlangen, Bayreuth, Germany)
- P3695 Combined endoscopic evaluation of central lung cancer spread using autofluorescence and spectroscopy  
Y. Kulakova, A. Arseniev, E. Levchenko, A. Barchuk, A. Akopov (St. Petersburg, Russian Federation)
- P3696 Autofluorescence and narrow band imaging videobronchoscopy in detection of premalignant bronchial lesions  
B. Zaric, B. Perin, S. Jovanovic, E. Budisin, G. Stojanovic, N. Lalic, M. Antonic (Sremska Kamenica, Republic of Serbia)
- P3697 Development and clinical testing of a device for functional bronchoscopy  
L. Freitag, K. Darwiche (Essen, Germany)
- P3698 Percutaneous computed tomography-guided radiofrequency thermal ablation: Efficacy and safety in lung cancer  
A. Tavares e Castro, F. Alves, S. Freitas, A. Portilha, A. Pêgo, F. Caseiro Alves (Coimbra, Portugal)
- P3699 Transbronchoscopic catheter deposition of radioopaque hydrogels as pseudotumors – Useful tool in advancing bronchoscopy image-guided intervention development & training  
R. Yung, M. Y. Zeng, S. Xu, D. Xu, B. Barnett (Baltimore, Braircliff, United States of America)

HALL 2-8

SESSION 400

12:50 - 14:40

## Thematic Poster Session: A little bit of everything: interventional pneumology

**Chairs:** J. Janssen (Nijmegen, The Netherlands), M. Doris (Athens, Greece), M. Munavvar (Preston, Lancashire, United Kingdom), S. Altin (Istanbul, Turkey)

- P3700 Role of medical thoracoscopy in a developing country: A single unit experience from Sri Lanka  
D. Madegedara, N. Dissanayake, D. Yasaratne, C. Kulathunga, S. Nakandala, P. Wijerathne, C. Wirasinghe (Kandy, Sri Lanka)
- P3701 Thorascopic palliative treatment of malignant pleural effusions  
C. Mitrofan, C. E. Mitrofan, D. Barzu, M. Bosanceanu, L. Farmatu, D. Trufa, C. Grigorescu (Iasi, Romania)
- P3702 Classification of findings during medical thoracoscopy: Do they correlate with pathology?  
P. Emmanouil, R. Tringidou, D. Chiotis, M. Stratiki, K. Kontogianni, N. Koufos, S. Gennimata, S. Zakyntinos, M. Alchanatis, G. Stratakos (Athens, Greece)
- P3703 Use of indwelling pleural catheters for management of recurrent chylothorases secondary to benign superior vena cava syndrome: A case report  
F. Al-Ghimlas, S. Alazemi (Safat, Kuwait)
- P3704 Impact of a new bedside thoracic ultrasound service in a large district general hospital: A service evaluation  
H. Stanworth, P. Marsden, M. Evison, G. Hoadley, T. Saba (Liverpool, Blackpool, United Kingdom)
- P3705 Impact of teaching and awareness programme on doctors' knowledge of chest drain insertion site  
M. Murthy, J. Gallagher, N. Stevenson (Upton, United Kingdom)
- P3706 Respiratory acute failure in unknown severe arterovenous malformations (MAV) in both lungs in patient with Williams syndrome (WS)  
R. Bossi, P. Tarsia, M. Pappalettera, A. Nicolini (Milano, Italy)
- P3707 Transtracheal oxygen therapy as an effective treatment in patients suffering from severe hypoxemia and with high flow oxygen requirement: Description of two cases  
S. Baglioni, M. Dottorini, E. Scoscia, E. Albo, A. Eslami, E. Fiandra, M. Abbritti, O. Penza (Perugia, Italy)
- P3708 Two cases of benign tracheal stenosis successfully treated by minimally invasive endobronchial intervention  
A. Buls, P. J. Lejnicks, I. Ronis (Riga, Riga Distr., Latvia)
- P3709 Comparison of I-gel and laryngeal mask for fibrobronchoscopy  
S. Alexov, D. Kostadinov, D. Petrov (Sofia, Bulgaria)
- P3710 Feasibility and safety of propofol sedation in flexible bronchoscopy  
P. Grendelmeier, G. Kurer, E. Pflimlin, M. Tamm, D. Stolz (Basel, Switzerland)
- P3711 Predicting sedation in flexible bronchoscopy  
R. Mc Donagh, S. Shahbaz, J. O'Neill, E. Moloney, S. Lane (Dublin, Ireland)
- P3712 A retrospective audit of lidocaine use at bronchoscopy in a UK district general hospital  
C. Lawless, S. Meghjee (Wakefield, United Kingdom)
- P3713 Patient comfort score at bronchoscopy  
A. Ionescu, K. Pink (Newport, United Kingdom)
- P3714 Patient satisfaction survey on bronchoscopy explanation  
R. K. Yadavilli, I. Webster (Bolton, United Kingdom)
- P3715 Fiberoptic bronchoscopy assisted percutaneous dilatational trecheostomy: How safe is for an intensivist to perform it?  
K. Tsikritsaki, G. Koukoulitsios, C. Tsakalakis, P. Zotos, N. Katsarelis, P. Spyrou, K. Tsironas, M. Pedonomos (Athens, Greece)

- P3716 Outcomes and complications of bronchoscopy-guided percutaneous dilatational tracheostomy  
J. A. García Romero de Tejada, R. M. Gómez Punter, I. Carrasco Barber, R. Andino Ruiz, J. Aspa Marco, O. Rajas Naranjo (Madrid, Spain)
- P3717 The real-interventional-bleeding simulator: A new training and education model for interventional bronchoscopy  
M. Hackl, A. Sulzmann, M. Luelf, K. Lemke, H. Jamnig (Natters, Austria; Heiligkreuzsteinach, Germany)
- P3718 Improved diagnostic of electromagnetic navigation bronchoscopy in peripheral lung lesions: Are the size and the bronchus sign important?  
O. Rajas Naranjo, R. M. Gómez Punter, J. A. G<sup>a</sup> Romero de Tejada, E. Vazquez Espinosa, J. Ancochea Bermúdez, J. Aspa Marco (Madrid, Spain)
- P3719 Transbronchosopic 3D volumetric optical coherence tomography (OCT) imaging of airways  
J. Xi, X. Li, M. Zeng, S. Xu, R. Yung (Baltimore, Braircliff, United States of America)

HALL 2-9

SESSION 401

12:50 - 14:40

### Thematic Poster Session: Different profiles of sarcoidosis and other granulomatous disorders

**Chairs:** E. Bargagli (Siena, Italy), S. Freitas (Coimbra, Portugal), R. P. Baughman (Cincinnati, United States of America)

- P3720 Effect of infliximab on lung function and well-being in patients with refractory sarcoidosis  
H. N. A. J. van Rijswijk, A. D. M. Vorselaars, I. H. E. Korenromp, H. J. T. Ruven, R. G. M. Keijsers, J. C. Grutters (Nieuwegein, 's Hertogenbosch, Utrecht, The Netherlands)
- P3721 Many faces of neursarcoidosis!  
N. Marçal, M. Aguiar, J. Pimentel, I. Claro, A. C. Mendes, A. Bugalho de Almeida (Lisbon, Portugal)
- P3722 Evaluation of factors affecting mortality rate in sarcoidosis  
E. Gialafos, V. Kouranos, A. Kallianos, T. David, T. Papaioannou, S. Stampola, E. Peros, I. Arapis, C. Kostopoulos, G. Mpirmpa, J. Gialafos, A. Rapti (Athens, Greece)
- P3723 Long-term treatment with infliximab in patients with sarcoidosis  
K. Hostettler, U. Studler, M. Tamm, M. Brutsche (Basel, Switzerland)
- P3724 Interferon gamma release assays in screening for tuberculosis – Can we use them in patients with sarcoidosis?  
N. Milman, C. B. Svendsen, B. Søborg, A. B. Andersen (Copenhagen, Denmark)
- P3725 Honeycombing pattern: A particular form of sarcoidosis-related pulmonary fibrosis  
A. Herve, P. Y. Brillet, D. Bouvry, O. Freynet, J. M. Naccache, M. Kambouchner, M. Brauner, D. Valeyre, H. Nunes (Bobigny, France)
- P3726 Thyroid disease in an Irish cohort of sarcoidosis patients  
M. McDonnell, I. Suleem, R. Rutherford, A. O'Regan, J. J. Gilmartin (Galway, Ireland)
- P3727 Pulmonary hypertension and right ventricular impairment in patients with sarcoidosis  
N. Karoli, A. Rebrov (Saratov, Russian Federation)
- P3728 Clinical and morphological signs of liver damage in patients with pulmonary sarcoidosis  
M. Lebedeva, I. Popova, E. Popova, A. Ponomarev, E. Arion (Moscow, Russian Federation; Moscow, Reunion)
- P3729 Diagnostic value of epithelioid cell granulomas in bronchoscopic biopsies  
E. Danila, E. Zurauskas, R. Zablockis, V. Gruslys (Vilnius, Lithuania)
- P3730 Is sarcoidosis associated with increased occurrence of malignancy? A retrospective analysis  
M. Doubkova, I. Binkova, J. Skrickova (Brno, Czech Republic)
- P3731 QRS-T angle significantly increased in sarcoidosis patients  
E. Gialafos, A. Kallianos, V. Kouranos, M. Ntouskou, E. Taktikou, E. Peros, L. Velentza, G. Dionellis, C. Kostopoulos, G. Mathioudakis, I. Arapis, G. Tzelepis, A. Rapti (Athens, Greece)
- P3732 Hard diagnosis of intrathoracic sarcoidosis in male patients  
M. Zarrouk, N. Ben Salem, N. Chaouch, M. Loukil, S. Cheikh Rouhou, H. Racil, K. Marnich, A. Chabbou (Ariana, Tunis, Tunisia)
- P3733 Corticosteroids significantly improve symptom score in patients with active pulmonary sarcoidosis over a two year follow up  
H. Milburn, A. Warrington (London, United Kingdom)
- P3734 Serum angiotensin converting enzyme (ACE) as additional clinical markers of activity of pulmonary and extra-pulmonary locations of sarcoidosis  
M. Lebedeva, E. Popova, A. Ponomarev, B. Sergei (Moscow, Russian Federation)
- P3735 Manifestations of malignancies during the course of sarcoidosis  
J. Videnovic-Ivanov, V. Vucinic, S. Filipovic, V. Zugic, J. Stojic (Belgrade, Republic of Serbia)
- P3736 Experience of hydroxychloroquine in the treatment of pulmonary sarcoidosis in the west of Ireland: An insight into clinical practice  
M. McDonnell, I. Suleem, R. Rutherford, A. O'Regan, J. J. Gilmartin (Galway, Ireland)
- P3737 Characteristics of inflammatory bowel diseases-associated interstitial lung diseases  
C. Bron, M. Kambouchner, T. Gille, Y. Uzunhan, J. M. Naccache, P. Y. Brillet, M. Brauner, D. Valeyre, H. Nunes (Bobigny, France)

TUESDAY  
27

## TUESDAY SEPTEMBER 27

- P3738 Characterization of chronic hypersensitivity pneumonitis and evaluation of its predictive factors – Retrospective study  
R. Rolo, A. Morais, N. Melo, P. Mota, J. M. Pereira, M. A. Vasconcelos, S. Guimarães, C. Souto-Moura (Braga, Porto, Portugal)
- P3739 Prevalance and outcomes of pulmonary hypertension in chronic hypersensitivity pneumonitis  
D. Koschel, C. Cardoso, B. Wiedemann, G. Höffken, M. Halank (Coswig, Dresden, Germany)

HALL 2-10

SESSION 402

12:50 - 14:40

**Thematic Poster Session: Clinical perspectives in several interstitial diseases****Chairs: D. Valeyre (Paris, France), A. Morais (Maia, Portugal), P. Rottoli (Siena, Italy)**

- P3740 Late-breaking abstract: Pathological analysis of acute exacerbation of idiopathic pulmonary fibrosis (IPF)  
Y. Fukuda, M. Terasaki, M. Takahashi, S. Kunugi, Y. Terasaki, H. Urushiyama, A. Azuma (Bunkyo-ku, Japan)
- P3741 Interstitial lung disease associated by gemcitabine chemotherapy in non-small lung cancer patients: Analysis based on the data in practical use with confirmed denominator  
Y. Miura, Y. Saito, Y. Minegishi, A. Azuma, A. Gemma (Tokyo, Japan)
- P3742 Lymphoid hyperplasia and eosinophilic pneumonia as histologic manifestations of amiodarone-induced lung toxicity  
B. T. Larsen, L. T. Vaszar, H. D. Tazelaar, T. V. Colby (Tucson, Scottsdale, United States of America)
- P3743 Could interferon-gamma 1b have a role in treatment of fibrosing NSIP?  
B. Bellofiore, M. Bocchino, G. Antinolfi, A. Ponticello, R. Di Grazia, A. Sanduzzi Zamparelli, S. Nikfam (Napoli, Italy)
- P3744 The clinical dynamic changes and prognosis analysis in patients with cryptogenic organizing pneumonia  
X. Zhang (Beijing, China)
- P3745 Follow up 1 year of amiodarone pulmonary effects  
G. Orlova, J. Nikolaeva, L. Kiruchina, A. Speranskaya, V. Perley, A. Gichkin (Saint-Petersburg, Russian Federation)
- P3746 Combined pulmonary fibrosis and emphysema. Descriptive analysis from a specialized clinic of interstitial lung disease  
M. A. Nieto, B. Morales, C. Feranadez-Golfin, P. Benedetti, G. Rodriguez-Trigo, I. Gerasimova, J. L. Álvarez-Sala Walthier (Madrid, Spain)
- P3747 The King's sarcoid questionnaire (KSQ): The development of a novel health related quality of life (HRQOL) questionnaire  
A. Patel, R. Siegert, A. Sowemimo, D. Creamer, G. Larkin, A. Wells, I. Higginson, S. Birring (London, United Kingdom)
- P3748 Evaluation of the COPD assessment test (CAT) for measuring health-related quality of life in patients with interstitial lung disease  
K. Nagata, K. Tomii, M. Hayashi, K. Otsuka, R. Tachikawa, K. Otsuka (Kobe, Japan)
- P3749 Fungal colonization in interstitial lung diseases  
I. Sivokozov, O. Lovacheva, E. Shmelev, E. Larionova (Moscow, Russian Federation)
- P3750 Forced vital capacity decreases rapidly in patients with idiopathic upper lobe-dominant pulmonary fibrosis  
K. Watanabe, T. Harada, T. Hirota, K. Nabeshima, M. Fujita, N. Nagata (Fukuoka, Japan)
- P3751 Pulmonary hypertension and right ventricular impairment in patients with interstitial pneumonia  
N. Karoli, A. Rebrov (Saratov, Russian Federation)
- P3752 Interstitial lung diseases in Europe  
R. Carbone, R. Filiberti, E. Savarino, R. Ghio, A. Ballestrero (Gneoa, Genoa, Italy)
- P3753 Effect of PDE-5 inhibitor treatment in patients with interstitial lung disease and pulmonary hypertension  
G. S. Zimmermann, K. Jakob, W. von Wulffen, P. Huppmann, T. Meis, V. Arias Herrera, C. Baezner, F. Ihle, J. Geiseler, J. Fresenius, H. H. Leuchte, R. Baumgartner, J. Behr, C. Neurohr (Munich, Gauting, Bochum, Germany)
- P3754 Pulmonary hypertension in patients with interstitial lung disease  
Z. Dogrul, S. Erginel, H. Yildirim, G. Ak, R. Ozkan, F. Alatas, M. Metintas (Eskisehir, Turkey)
- P3755 Resting PaO<sub>2</sub> and 6MWT as diagnostic index for nocturnal oxygen desaturation in diffuse parenchymal lung diseases  
S. Singh, M. L. Gupta, R. Singh, V. Singh (Jaipur, India)
- P3756 Drug induced lung disease: 11 cases  
E. Kupeli, T. Sahin Ozdemirel, Z. Erayman Ozen, G. Ulubay, S. Akcay, F. O. Eyuboglu (Ankara, Turkey)
- P3757 Quadriceps function is reduced in fibrotic idiopathic interstitial pneumonia  
L. Mendoza, A. Gogali, S. Kemp, D. Shrikrishna, A. Jackson, G. Cavada, M. Polkey, A. Wells, N. Hopkinson (Santiago, Chile; Ioannina, Greece; London, United Kingdom)
- P3758 Assessment of cardiac involvement in patients with sarcoidosis  
V. Kouranos, A. Rapti, E. Gialafos, K. Aggeli, M. Ntouskou, A. Kallianos, O. Anagnostopoulou, G. Tzelepis (Athens, Greece)
- P3759 Prognostic significance of serum markers in acute exacerbation of idiopathic interstitial pneumonias  
T. Arai, Y. Inoue, K. Tachibana, Y. Inoue, A. Nishiyama, C. Sugimoto, T. Kagawa, T. Okuma, M. Akira, M. Kitaichi, S. Hayashi (Sakai, Japan)



**Thematic Poster Session: Quality of diagnosis and assessment in primary care**

**Chairs:** T. Van Der Molen (Groningen, The Netherlands), A. Kruis (Leiden, The Netherlands), P. White (London, United Kingdom), K. Lisspers (Gagnef, Sweden)

- P3760 How often do respiratory specialists agree with the diagnosis of COPD made in general practice? An audit of referrals to a community based COPD centre (BreathingSpace) in the UK  
A. Green, G. Basran, G. South (Rotherham, United Kingdom)
- P3761 A survey of pulse oximeter use by general practitioners in East Berkshire, UK  
S. Menzies, J. Wiggins (Slough, United Kingdom)
- P3762 Using population insight studies to define effective prevention and identification interventions in COPD  
M. Kearney, J. Crighton, K. Holton, A. Moger, R. Winter, S. Hill (London, United Kingdom)
- P3763 Poor quality of health services at primary care level is the leading cause of uncontrolled asthma in India  
J. K. Samaria, M. Hussain, P. Yadav MV, A. P. K. Ahmed, M. Meena, P. Kulkarni, A. Mahapatra, S. Sharma (Varanasi, India)
- P3764 Novel study design to assess the utility of the COPD assessment test (CAT)  
K. Gruffydd-Jones, H. Pearce, S. Holmes, P. Kardos, R. Escamila, R. Dal Negro, J. Roberts, G. Nadeau, D. Leather, P. Jones (Corsham, London, Somerset, Salford, United Kingdom; Frankfurt, Germany; Toulouse, France; Bussolegno, Italy)
- P3765 The Breathing Bus – A primary care model for identifying undiagnosed COPD in hard to reach populations. A pilot study  
J. Roberts, H. Cullen, N. Diar Bakerly (Salford, United Kingdom)
- P3766 Two year mortality of COPD in primary care in Greece: An observational study  
M. Minas, I. Verou-Katsarou, P. Mystridou, E. Apostolidou, H. Chrisi, K. Gourgoulisian (Larissa, Greece)
- P3767 Exhaled nitric oxide: A useful adjunct test in assessing asthma control in primary care – A cross-sectional exploration  
E. Termeer, J. Snoeck-Stroband, H. Nuiten, P. Honkoop, R. Loymans, B. Thoonen, I. Smeele, J. Sont, C. van Weel, T. Schermer (Nijmegen, Leiden, Amsterdam, Velp, Breda, The Netherlands)
- P3768 A pilot study to detect airflow obstruction in smokers using spirometry in a local GP surgery  
B. Mann, E. Ramhamadany, L. Seddon, E. Loveridge, A. Glennon (London, United Kingdom)
- P3769 Effectiveness of supervised training program about spirometry in primary care  
C. Represas-Represas, V. Leiro-Fernández, M. Botana-Rial, A. I. González-Silva, A. Fernández-Villar (Vigo, Spain)
- P3770 Agreement between asthma control perception by patients, by physicians and according to guidelines  
M. C. Vennera, C. Picado, L. Herraéz, J. Galera, J. Casafont, on behalf of the CONTROL Study Group (Barcelona, Spain)
- P3771 Peak flow is not strictly comparable by gauge and spirometry in many patients  
C. Bradley, H. Tighe, P. Ind (London, United Kingdom)
- P3772 Composite asthma control measures in real-life studies  
D. Price, R. Martin, G. Colice, P. Dorinsky, A. Chisholm, J. von Ziegenweidt, A. Burden, P. Polos, L. Hillyer, N. Roche (Aberdeen, Norwich, United Kingdom; Denver, Washington, Horsham, United States of America; Paris, France)
- P3773 Pharmacists and knowledge of asthma: Survey of 120 pharmacists, comparison between 1999 and 2009  
M. Menier-Spitz, H. Lefevre, P. Rebotier, C. Heitz, A. S. Bihler, F. de Blay (Strasbourg, France)
- P3774 Know it, check it, treat it – COPD consumer mobilisation campaign. A pilot study  
J. Roberts, H. Cullen, N. Diar Bakerly (Salford, United Kingdom)
- P3775 Knowledge of pulse oximetry among general practitioners in south Australia  
Q. Huijgen, T. Effing, K. Hancock, T. Schermer, A. Crockett (Utrecht, Nijmegen, The Netherlands; Adelaide, Australia)
- P3776 Reliability of the FSI-10 questionnaire for the assessment of the usability of inhalers in Greek patients  
N. Grekas, K. Athanassiou, K. Papataxiarchou, O. Porichi, M. Perpina-Tordera (Pikermi, Greece; Valencia, Spain)
- P3777 Lung function disorders screening among the smoking patients in primary health care  
E. Andreeva, I. Kudryavtseva, V. Popov (Arkhangelsk, Russian Federation)
- P3778 The prevalence of respiratory infections in vaccinated patients with chronic obstructive pulmonary disease  
D. Sereti, K. Sereti, T. Theodosiou, V. Kyriakopoulou, M. Petta, M. Petta (Patras, Vardas, Greece)
- P3779 Evaluation of lung function on asthma patients cared by primary care physicians  
C. Almonacid Sanchez, J. L. Izquierdo Alonso, P. De Lucas Ramos, J. M. Rodriguez Gonzalez-Moro, J. Gallardo Carrasco, A. Martin Centeno (Guadalajara, Madrid, Spain)

**Thematic Poster Session: Recent advances in noninvasive ventilation used for treating acute respiratory failure**

**Chairs: M. Ferrer (Barcelona, Spain), P. Navalesi (Vercelli, Italy), B. Schoenhofer (Hanover, Germany), R. Angus (Liverpool, United Kingdom)**

- P3780 Non-invasive ventilation (NIV) in community-acquired pneumonia (CAP) and severe acute respiratory failure (ARF): Effectiveness and risk factors for failure and mortality  
A. Carrillo, G. Gonzalez-Diaz, M. Ferrer, M. E. Martinez-Quintana, A. Lopez-Martinez, N. Llamas, M. Alcazar, A. Torres (Murcia, Barcelona, Spain)
- P3781 Pressure support in acute hypercapnic respiratory failure in an acute clinical setting  
A. Ali, A. Thomas, S. Bikmalla, B. Beauchamp, E. Gallagher, D. Banejee, R. Mukherjee (Birmingham, United Kingdom)
- P3782 Home versus intensive care ventilators providing noninvasive ventilation (NIV): A clinical comparison during acute respiratory failure due to COPD exacerbation  
M. Ciuffreda, A. Sarni, M. Mozzillo, M. Zotti, M. Aiuti, C. Alessandri (Latina, Italy)
- P3783 Predictors of mortality in patients treated with non-invasive ventilation for acute hypercapnic respiratory failure due to COPD  
H. Haja Mydin, S. Murphy (Newcastle upon Tyne, Sunderland, United Kingdom)
- P3784 Non invasive ventilation (NIV) in conscious sedation with remifentanyl  
A. Pecoraro, G. Del Giudice (Pescopagano, Naples, Italy)
- P3785 Noninvasive ventilation in the weaning of patients with acute-on-chronic respiratory failure due to COPD  
G. Agmy, Y. Gad, Y. Ahmed (Assiut, Egypt)
- P3786 Leptin kinetics in patient with obesity hypoventilation syndrome (OHS) during non-invasive ventilation (NIV)  
G. Baimakanova, S. Avdeev, A. Chuchalin (Moscow, Russian Federation)
- P3787 A prospective study of low pressure non invasive ventilation (NIV) in management of type 2 respiratory failure with acute exacerbation of COPD with comorbidities  
R. Kedia, P. Prashant, B. Michelle, J. Simcock (Crewe, United Kingdom)
- P3788 Mortality in acute patients treated with noninvasive ventilation (NIV)  
V. Almadana, A. Gómez-Bastero, A. Valido, J. Sánchez, P. Guerrero, T. Montemayor (Seville, Spain)
- P3789 Decision making in acute hypercapnic respiratory failure due to COPD: Criteria in patient selection & determining ceiling of care  
L. Tanner, S. Murphy (Sunderland, United Kingdom)
- P3790 Prognosis after non-invasive ventilation (NIV) for chronic obstructive pulmonary disease (COPD)  
M. Abdelhalim, M. Khan, M. Paracha (Blackpool, United Kingdom)
- P3791 Outcome analysis of 'do not resuscitate' versus 'full resuscitation' patients with an acute exacerbation of COPD treated with noninvasive ventilation in a pulmonary unit  
R. van der Wekken, A. Bossink, F. Brijker (Utrecht, The Netherlands)
- P3792 Patients' perspective of acute non-invasive ventilation (NIV) for decompensated type 2 respiratory failure (T2RF)  
M. Hasan, M. Naveed, H. Burhan, C. Smyth (Liverpool, United Kingdom)
- P3793 Pulmonary gas exchange during mechanical non invasive ventilation in acute hypercapnic patients with obesity hypoventilation syndrome (OHS)  
V. Serrano, J. E. Gavela, P. Gavari, B. Carton, F. Muñoz, E. G. Santalla, E. Bollo, F. Diez (León, Astorga, Spain)
- P3794 Predictors of non-invasive ventilation outcome in chronic obstructive pulmonary disease and pneumonia  
M. Nuila, U. Gupta, C. O'Donnell (London, United Kingdom)
- P3795 Non-invasive ventilation (NIV) in acute respiratory failure in a respiratory intermediate unit care (RICU) – Characterization and predictors of failure  
A. S. Oliveira, S. Salgado, C. Nunes, F. Oliveira, C. Bárbara (Lisbon, Portugal)
- P3796 Survival of COPD patients after their first episode of acute exacerbation treated with non-invasive ventilation  
Y. H. Man (TaiPo, Hong Kong)
- P3797 Noninvasive positive pressure ventilation in elderly patients with acute respiratory failure due to severe pneumonia  
Y. Yokoyama, H. Taniguchi, Y. Kondoh, T. Kimura, K. Kataoka, R. Hasegawa (Seto, Japan)
- P3798 Survey of non-invasive ventilation use for acute respiratory failure in respiratory wards in Poland  
J. Nasilowski, M. Leszczyk, M. Bura, R. Chazan (Warsaw, Poland)
- P3799 Can non invasive ventilation be effective without a dedicated service?  
G. Hardy, S. Jundi, M. Rosemary, T. Saba (Blackpool, United Kingdom)

**Thematic Poster Session: Lung development and neoplasia**

**Chairs:** H. Popper (Graz, Austria), J. Chorostowska-Wynimko (Warsaw, Poland), R. Lucas (Augusta, United States of America), S. Matalon (Birmingham, United States of America)

- P3800 Directed differentiation of mouse embryonic stem cells into primordial lung progenitor cells  
F. Hawkins, T. Longmire, J. Chang, L. Oikonomou, D. Kotton (Boston, United States of America)
- P3801 Developmental profile of cellular pathways regulating protein breakdown in the fetal and postnatal diaphragm  
Y. Song, J. Pillow (Perth, Australia)
- P3802 PECAM-1 single nucleotide polymorphisms and idiopathic pulmonary fibrosis  
M. Crooks, A. Fahim, S. Hart (Hull, United Kingdom)
- P3803 Up-regulation of collagen type V mRNA in a model of systemic sclerosis  
R. G. Marangoni, A. P. P. Velosa, E. E. Parra, J. de Moraes, V. L. Capelozzi, W. R. Teodoro, N. H. Yoshinari (São Paulo, Brazil)
- P3804 Anti-fibrotic effects of liver X receptor agonists in human fetal lung fibroblasts  
S. Hisata, S. Chiba, T. Ito, M. Ebina, T. Nukiwa (Sendai, Japan)
- P3805 Identification of stable housekeeping genes for real-time PCR in human pulmonary fibroblasts  
C. Stock, P. Leoni, X. Shi-Wen, D. Abraham, A. Nicholson, A. Wells, E. Renzoni, G. Lindahl (London, United Kingdom)
- P3806 Molecular screening – A search for potential drugs for idiopathic pulmonary fibrosis  
O. Leppäranta, M. Beshpalov, M. Myllärniemi, K. Koli (Helsinki, Finland)
- P3807 Serum amyloid A as a potential biomarker of sarcoidosis  
E. Bargagli, C. Olivieri, C. Landi, B. Magi, D. Bennett, N. Bianchi, A. Perrone, A. Fossi, P. Rottoli (Sienna, Italy)
- P3808 Screening for alpha-1 antitrypsin deficiency in Polish lung or liver disease patients  
R. Struniawski, P. Kuca, A. Szpechcinski, M. Skronski, M. Czajkowska-Malinowska, J. Kozielski, P. Sliwinski, K. Górska, P. Korczynski, R. Krenke, R. Chazan, U. Oldakowska-Jedynak, M. Krawczyk, E. Jassem, H. Batura-Gabryel, J. Chorostowska-Wynimko (Warsaw, Bydgoszcz, Zabrze, Gdansk, Poznan, Poland)
- P3809 Proteomic analysis of antioxidant proteins in bronchoalveolar lavage of patients with pulmonary Langerhans-cell histiocytosis  
P. Rottoli, C. Landi, E. Bargagli, A. Prasse, B. Magi, M. G. Perari, J. Muller-Quernheim, L. Bini (Sienna, Italy; Freiburg, Germany)
- P3810 Endothelin-1 (ET-1) is a useful biomarker for early detection of ventilator-associated pneumonia (VAP) in mechanical ventilation children  
D. Dmytriiev, K. Dmytriieva, O. Katilov, O. Nazarchuk, A. Staradub, O. Mazulov, K. Dmytriiev (Vinnitsa, Ukraine)
- P3811 Does beta2 adrenoceptor (ADRB2) density vary in circulating lymphocytes compared with monocytes?  
L. P. Chung, S. Baltic, G. Waterer, P. Thompson (Perth, Australia)
- P3812 Apocynin augments IL-6, IL-8 and TNF expression in A549 cells  
J. Stefanska, M. Sokolowska, R. Pawliczak (Lodz, Poland)
- P3813 Comparison the frequency of human T-lymphocyte type 1 (HTLV 1) infection in tuberculosis patients with control group without tuberculosis  
D. Attaran, L. Ghofraniha, E. Ghalenoei, H. Rafatpanah, M. Khajedaloee, M. Towhidi, S. Mohamadzadeh Lari (Mashhad, Islamic Republic of Iran)
- P3814 Application of GenoTypeCM and GenoTypeAS to species identification of nontuberculous mycobacteria as a routine method in microbiology lab of CTRI, Moscow  
T. Smirnova, A. Vorobyeva, E. Larionova, S. Andreevskaya, L. Chernousova (Moscow, Russian Federation)
- P3815 The molecular mechanisms of lymphocyte apoptosis dysregulation at Th1- and Th2- cytokine disbalance  
E. Sazonova, O. Chechina, O. Zhukova, N. Ruazanceva (Tomsk, Russian Federation)
- P3816 Diverse effects of PAI-1 proteins on lung and prostate cancer cell invasion  
A. Rozy, M. Kedzior, J. Chorostowska-Wynimko, P. Jagus, A. Szpechcinski, E. Skrzypczak-Jankun, J. Jankun (Warsaw, Poland; Toledo, United States of America)
- P3817 Role of bronchoscopy in lung cancer translational research: Tumor harvest for the lung cancer mutation consortium (LCMC) studies  
R. Yung, M. Rutledge, P. Illei, M. Brock, C. Rudin (Baltimore, United States of America)
- P3818 GSTT11 and CYP1A1 polymorphisms, tobacco smoking and lung cancer in northern India  
S. Bhattacharya, A. R. Tilak, R. K. Shukla, S. Kant, A. Kumar, B. Mittal (Lucknow, India)
- P3819 Comparing LYVE-1 and D2-40 expression in small cell lung carcinomas (SCLC); association with clinical parameters and lymphatic invasion  
G. Hardavella, V. Siozopoulou, A. Batistatou, P. Galanis, Y. Dalavanga, M. Alchanatis, D. Stefanou, S. Constantopoulos (Athens, Ioannina, Greece)

## TUESDAY SEPTEMBER 27

HALL 2-14

SESSION 406

12:50 - 14:40

## Thematic Poster Session: COPD: clinical studies and animal cell models

**Chairs:** M. Gjomarkaj (Palermo, Italy), J. H. J. Vernooy (Maastricht, The Netherlands), T. Mauad (São Paulo, Brazil), J. Erjefält (Lund, Sweden)

- P3820 Altered composition of airway basement membranes in COPD  
O. Hallgren, A. Andersson-Sjöland, E. Wieslander, M. Kvist-Reimer, M. Dahlbäck, L. Ericsson, J. Erjefält, L. Bjermer, C. G. Löfdahl, G. Westergren-Thorsson (Lund, Sweden)
- P3821 Cigarette smoking inhibits LTA<sub>4</sub>H aminopeptidase activity and contributes to chronic neutrophilic airway inflammation and COPD  
J. Wells, J. Blalock, P. O'Reilly (Birmingham, United States of America)
- P3822 Expression patterns of IL-1 receptor 1 in COPD lungs  
A. Bergqvist, C. Andersson, M. Mori, C. Van Hove, L. Bjermer, J. Erjefält (Lund, Sweden)
- P3823 Expression of epidermal growth factor receptor (EGFR) in the bronchial epithelium of patients with chronic obstructive pulmonary disease (COPD)  
E. M. Saied, A. S. Bediwy (Tanta, Egypt)
- P3824 Expression profiling of Th17 associated molecules in bronchoalveolar cells from patients with chronic obstructive pulmonary disease (COPD)  
Z. Navratilova, E. Kriegova, J. Zatloukal, V. Kolek, M. Petrek (Olomouc, Czech Republic)
- P3825 Enhanced expression of IL-18 receptor but not soluble form of IL18R in chronic obstructive pulmonary disease (COPD)  
S. Takenaka, T. Hoshino, Y. Sakazaki, M. Sawada, H. Oda, H. Imaoka, S. Takei, T. Kinoshita, T. Kawayama, H. Aizawa (Kurume, Japan)
- P3826 Roflumilast potently inhibits CXCL1 mediated neutrophil migration in COPD patients  
A. Turner, P. Fenwick, P. Barnes, L. Donnelly (London, United Kingdom)
- P3827 Apocynin reduces H<sub>2</sub>O<sub>2</sub> and NO<sub>2</sub><sup>-</sup> concentrations in exhaled breath condensate of COPD patients  
J. Stefanska, A. Sarniak, A. Wlodarczyk, M. Sokolowska, Z. Doniec, D. Nowak, R. Pawliczak (Lodz, Rabka, Poland)
- P3828 Modulation of NK receptors by budesonide and/or formoterol in healthy volunteers and COPD patients  
C. Folli, A. Chiappori, M. Pellegrini, V. Garelli, A. M. Riccio, L. De Ferrari, F. Braidò, G. W. Canonica (Genoa, Basiglio, Italy)
- P3829 Cigarette smoke exposure in mice leads to a loss of reversible cysteine oxidations PSSG and PSNO in lung  
I. Kuipers, K. Bracke, G. Brusselle, E. Wouters, N. Reynaert (Maastricht, The Netherlands; Ghent, Belgium)
- P3830 Hypoxic exposure after smoke cessation restores alveolar surface area in mice  
C. Reinke, R. A. Wise, A. R. Schwartz, S. Biswal, W. Mitzner, V. Y. Polotsky (Baltimore, United States of America)
- P3831 Role of highly reactive aldehydes in cigarette smoke induced airway inflammation  
A. Troszok, M. van der Toorn, D. Rezayat, R. Gras, H. de Bruin, D. J. Slebos, A. van Oosterhout (Groningen, The Netherlands)
- P3832 Effects of adipose tissue-derived stromal/stem cells transplantation on elastase-induced pulmonary emphysema in rats  
N. Furuya, M. Takenaga, T. Miyazawa (Kawasaki, Japan)
- P3833 Role of IL-1 $\alpha$  and IL-1 $\beta$  in cigarette smoke-induced pulmonary inflammation and COPD  
K. Bracke, N. Pauwels, L. Dupont, G. Van Pottelberge, G. Joos, G. Brusselle (Ghent, Belgium)
- P3834  $\beta_2$  long-acting and anticholinergic drugs synergistically control TGF $\beta$ 1-mediated neutrophilic inflammation in COPD: An "in vitro" model  
M. Profita, A. Bonanno, A. M. Montalbano, M. Ferraro, G. D. Albano, L. Riccobono, L. Siena, M. P. Pieper, P. Casarosa, M. Gjomarkaj (Palermo, Italy; Biberach, Germany)
- P3835 JAK inhibitors overcome corticosteroid insensitivity in COPD  
P. Macedo, I. Kilty, P. Barnes, L. Donnelly (London, Sandwich, United Kingdom)
- P3836 Simvastatin attenuates cigarette smoke extract induced extracellular matrix  
B. Oliver, J. Burgess, J. Black, D. Krimmer (Sydney, Australia)
- P3837 Sirtuin 1 reduction causes activation of Wnt/b catenin signalling  
A. Papaioannou, K. Kostikas, P. Barnes, K. Ito (London, United Kingdom; Athens, Greece)
- P3838 Role of aberrant Wnt signaling in the lung epithelial response to cigarette smoke in COPD  
I. Heijink, H. De Bruin, M. Van den Berge, R. Gosens, A. Van Oosterhout, D. Postma (Groningen, The Netherlands)

HALL 2-15

SESSION 407

12:50 - 14:40

## Thematic Poster Session: Immunology and cell biology of asthma and COPD

**Chairs:** S. Baraldo (Padova, Italy), L. Dupont (Leuven, Belgium), K. Van Der Sluijs (Amsterdam, The Netherlands)

- P3839 Antigen presenting cell populations in the respiratory tract take up size-dependently particles during steady state and allergic airways inflammation  
F. Blank, D. Strickland, P. Stumbles, P. Holt, C. von Garnier (Berne, Switzerland; Perth, Australia)

- P3840 Disease and stimulus specific pro-inflammatory cytokine secretion by human fibroblast of asthma patients  
L. Costa, P. Borger, P. Casarosa, M. Tamm, M. Roth (Basel, Switzerland; Biberach, Germany)
- P3841 The role of MKK3 in allergic and non-allergic inflammatory responses in the lung  
T. Holand, Y. Riffo-Vasquez, D. Spina, B. O'Connor, F. Woisin, M. Marber, K. Bacon, C. Rolff (London, Slough, Abingdon, United Kingdom; Wuppental, Germany; San Diego, United States of America)
- P3842 Airway epithelial toll-like receptor expression in asthma and its relationship to disease severity  
L. Cottey, N. Jayasekera, H. M. Hiatchi, B. Green, C. Grainge, P. Howarth (Southampton, United Kingdom)
- P3843 Putative roles of leptin on airways reactivity  
I. L. Dumitriu, E. Cojocaru, B. Gurzu, L. G. Foia, S. M. Slatineanu (Iasi, Romania)
- P3844 Immunocytochemical study of interleukin-1 $\beta$  in alveolar macrophages of patients with well-controlled and non-controlled asthma  
S. Pospelova, V. Kravtsov, S. Sobchenko, A. Parfionov (Saint Petersburg, Russian Federation)
- P3845 Immune status in patients with bronchial asthma exacerbation and comorbide digestive system diseases  
S. Zagidullin, E. Galimova, G. Nurtidinova, R. Zulkarneev (Ufa, Russian Federation)
- P3846 Increased levels of CD4+CD25high and CD4+FoxP3+ T-regulatory cells (Tregs) in patients with different severity of bronchial asthma (BA)  
E. Kremer, N. Kirillova, S. Fedosenko, I. Deev, L. Ogorodova (Tomsk, Russian Federation)
- P3847 Superoxide dismutase as a longitudinal biomarker of lung function in asthma  
S. Comhair, A. Khan, S. Erzurum (Cleveland, United States of America)
- P3848 Anti-IgE and airway remodelling: Omalizumab affects reticular basement membrane thickness in severe persistent atopic asthma  
A. M. Riccio, R. W. Dal Negro, L. De Ferrari, C. Micheletto, G. W. Canonica, C. Folli, A. Chiappori (Genoa, Bussolengo, Italy)
- P3849 Reverba is a novel regulator of COPD macrophage inflammation and glucocorticoid resistance  
J. Blaikley, J. Gibbs, A. Loudon, S. Farrow, D. Singh, D. Ray (Manchester, Stevenage, United Kingdom)
- P3850 Quantitative proteomics study reveals cross-talk between autophagy and inflammation induced by cigarette smoke in airway  
Y. Ting, L. Xinyu, S. Yongchun, W. Fuqiang, Y. Binwu, W. Tao, X. Dan (Chengdu, China)
- P3851 Myeloid derived suppressor cells in the crosstalk between COPD and lung cancer  
S. Baraldo, L. Pinton, A. Ballarin, S. Mandruzzato, E. Bazzan, E. Falisi, G. Turato, K. Lokar-Oliani, M. Cosio, P. Zanovello, M. Saetta (Padova, Italy; Montreal, Canada)
- P3852 Comparison of fluticasone propionate and budesonide on phagocytosis of common respiratory pathogens in COPD patients  
C. M. R. Thomas, A. Miller-Larsson, P. J. Barnes, L. E. Donnelly (London, United Kingdom; Lund, Sweden)
- P3853 IL-17A expression by mast cells in smokers  
Y. Nussbaumer-Ochsner, L. F. Ferraz da Silva, K. F. Rabe, A. M. van Schadewijk, T. Mauad, P. S. Hiemstra (Leiden, The Netherlands; São Paulo, Brazil; Grosshansdorf, Germany)
- P3854 Carbocysteine and N-acetyl cysteine inhibit cigarette smoke mediated acetylation of the PMN chemoattractant peptide PGP  
M. Brown, M. Hardison, E. Blalock, P. Jackson (Birmingham, United States of America)
- P3855 Interactions between the effects of a 4-week NO $_2$  and carbon nanoparticle exposure with allergen sensitization on bronchial responsiveness in Brown Norway rat  
S. Layachi, F. Rogerieux, C. Gamez, K. Blazy, F. Robidel, A. Lecomte, G. Lacroix, S. Bayat (Amiens, Verneuil-en-Halatte, France)
- P3856 Biomass smoke extract increases fibronectin and perlecan release from human lung fibroblasts  
B. Oliver, J. Burgess, J. Black, D. Krimmer (Sydney, Australia)
- P3857 Hypoxia Inducible Factor-1 $\alpha$  binding to HDAC2 and MIF promoter regions is associated with changes in gene expression levels in chronic ozone exposed mice  
C. Wiegman, K. Russell, C. Clarke, P. Barnes, I. Adcock (London, United Kingdom)
- P3858 Characterisation of T cell populations in proximal and distal airways  
R. Spruce, G. Rankin, C. Pickard, J. Warner (Southampton, United Kingdom)

HALL 2-16

SESSION 408

12:50 - 14:40

**Thematic Poster Session: Phagocytes and dendritic cells****Chairs: R. Lutter (Amsterdam, The Netherlands), P. Borger (Basel, Switzerland)**

- P3859 Characterisation of a new Daisy cell line representative of human alveolar macrophage (hAM)  
Y. Hayman, S. Hart, A. Morice (Cottingham, United Kingdom)
- P3860 Sirtuins, the anti-ageing molecules, regulate anti-oxidant capacity via FoxO3 activity in monocytic cell line  
L. Nunez Naveira, N. Mercado, K. Ito (London, United Kingdom)
- P3861 YKL-40: Novel marker for pro-inflammatory M1 macrophages  
L. Kunz, E. van 't Wout, A. van Schadewijk, P. Hiemstra (Leiden, The Netherlands)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P3862 Lipid laden alveolar macrophages arise from airway reflux and aspiration  
Y. Hayman, S. Hart, A. Morice (Cottingham, United Kingdom)
- P3863 Reprogramming of alveolar macrophages – Prospect of successful treatment in COPD  
S. Lyamina, I. Maev, G. Yurenev, I. Malyshev (Moscow, Russian Federation)
- P3864 Lipid laden macrophages in patients with chronic cough  
B. Palomo, J. Belda, M. Arias, C. J. Rrguz. Pandiella, P. Paniagua, M. Rebollo, P. Casan (Oviedo, Spain)
- P3865 Effects of *Bu-Zhong-Yi-Qi-Tang* (*Hochuekkito*; TJ-41) on the inflammatory responses in alveolar macrophages of hyperglycemic mice  
M. Nakayama, H. Yamasawa, M. Soda, N. Mato, T. Hosono, M. Bando, Y. Sugiyama (Shimotsuke, Japan)
- P3866 LSC 2011 Abstract: Differential effects of diesel exhaust particules and endotoxin on phagocytosis and cytokine release by monocyte-derived macrophages  
G. Sehra, D. Rogers, L. Donnelly (London, United Kingdom)
- P3867 Changed phagocytic activity and pattern of Fcγ and complement receptors on blood monocytes in sarcoidosis  
A. Dubaniewicz, M. Wybieralska, S. Nowakowski, K. Rogoza, A. Sternau, J. M. Slominski, P. Trzonkowski (Gdansk, Gdansk, Poland)
- P3868 Immune complex binding by Fcγ receptor IIA and regulation of inflammation  
A. Bazakou, J. Greenman, S. Hart (Hull, United Kingdom)
- P3869 Anti-inflammatory activity of macrolides in peripheral blood mononuclear cells and the identification of potential biomarkers of azithromycin administration  
S. Hall, S. Farrow (Stevenage, United Kingdom)
- P3870 A novel macrolide/fluoroketolide, solithromycin (CEM-101), reverses corticosteroid insensitivity via activation of protein phosphatase PP2A  
Y. Kobayashi, R. Christos, P. Barnes, K. Ito (London, United Kingdom)
- P3871 Exposure to cigarette smoke affects the response of dendritic cells to pneumococcus  
O. Le Rouzic, G. Remy, C. Jardin, I. Tillie-Leblond, M. Pichavant, P. Gosset (Lille, France)
- P3872 OM-85 shapes dendritic cell activation into a “pre-alert” phenotype  
D. Bosisio, L. Salogni, N. Nowak, X. Vaira, P. Jeandet, G. Saborio, S. Sozzani (Brescia, Milan, Italy; Geneva, Switzerland)
- P3873 Altered phenotype of blood dendritic cells in patients with acute pneumonia  
K. Dreschler, K. Bratke, S. Petermann, P. Thamm, M. Kuepper, J. C. Virchow, M. Lommatzsch (Rostock, Germany)
- P3874 Humanized S.typhi flagellin (FliC) transfected non-small cell lung cancer (NSCLC) cells induce local inflammatory and necrotic changes in an experimental model  
M. Jankowski, J. Kowalewski, T. Wandtke, R. Lenartowski, P. Kopinski, M. Dancewicz, T. Tyrakowski (Bydgoszcz, Poland)
- P3875 LSC 2011 Abstract (winner of the best presentation award in the Young Investigator Session): Thymic stromal lymphopoietin is a central regulator of anti-viral CD8+ T cell response  
K. Yadava, S. Anke, A. Trompette, N. Harris, B. Marsland (Lausanne, Switzerland)

HALL 2-17

SESSION 409

12:50 - 14:40

## Thematic Poster Session: Cell biology of lung disease

**Chairs:** O. Holz (Hannover, Germany), C. Bingle (Sheffield, United Kingdom), M. Brodlie (Northumberland, United Kingdom)

- P3876 Late-breaking abstract: Repeated analysis of alpha-1-antitrypsin concentrations in sputum, lavage and serum of smokers with and without COPD  
O. Holz, S. Roepcke, G. Lauer, N. Krug, P. Ernst, C. Diefenbach, G. Lahu, J. Hohlfeld (Hannover, Konstanz, Germany)
- P3877 Late-breaking abstract: Repeated bronchoconstriction without additional inflammation is sufficient to induce airway remodelling in asthma  
C. Grainge, J. Ward, G. Lahiff, V. Dulay, L. Lau, D. Davies, P. Howarth (Southampton, United Kingdom)
- P3878 Late-breaking abstract: Role of IL-13-producing BLT1-positive CD8 T cells in asthmatic airway obstruction  
A. Dakhama, M. L. Collins, D. Y. M. Leung, E. Goleva, R. Alam, E. R. Sutherland, R. J. Martin, E. W. Gelfand (Denver, United States of America)
- P3879 In vivo imaging of NF-κB pathway in acute lung inflammation mouse model can predict a pharmacological response  
F. Stellari, F. Ricci, P. Caruso, L. Calza, R. Ruotolo, L. Lorenzini, G. Villetti (Parma, Bologna, Italy)
- P3880 Comparison of distal lung innervation in human and guinea pig precision-cut lung slices (PCLS)  
M. Schlepütz, A. D. Rieg, M. Bernau, J. W. Spillner, A. Perez-Bouza, R. Autschbach, S. Uhlig, C. Martin (Aachen, Germany)
- P3881 The clinical significance of markers of endothelial dysfunction (ED) in progression of idiopathic interstitial pneumonias (IIP)  
A. Ponomarev, E. Popova, M. Lebedeva, S. Bolevich, V. Osypenko (Moscow, Russian Federation)
- P3882 Increased polysialylation in lung tissue of patients with idiopathic pulmonary fibrosis  
C. Ulm, M. Korfei, S. Mueller, S. Rinné, H. Geyer, R. Gerardy-Schahn, M. Muehlenhoff, A. Guenther, R. Geyer, S. Galuska (Giessen, Marburg, Hannover, Germany)

- P3883 Human neutrophil peptides as biomarkers for monitoring respiratory functional impairment in sarcoidosis  
G. Paone, M. Rulli, A. Leone, P. Graziano, V. Conti, I. Cammarella, G. Galluccio, A. Sebastiani, G. Lucantoni, G. Puglisi (Rome, Milan, Italy)
- P3884 A role for cathepsin S in the pathogenesis of cystic fibrosis lung disease?  
S. Weldon, P. McNally, C. Scott, S. Randell, P. McCray, C. Taggart (Belfast, United Kingdom; Dublin, Ireland; Chapel Hill, United States of America)
- P3885 Immune and inflammatory responses in induced sputum (IS) in Anderson Fabry disease (AFD), COPD and healthy volunteers  
N. Shafi, D. Hughes, A. Mehta, C. Smith, M. Lipman (London, United Kingdom)
- P3886 Surfactant protein D is critical for local immunomodulation in the distal lung  
M. Beers, D. Jain, F. Blank, Y. Tomer, C. von Garnier (Philadelphia, United States of America; Bern, Switzerland)
- P3887 Increased mast cell numbers in alveolar parenchyma in infants with respiratory viral infections  
C. Andersson, A. Al-Garawi, T. Mauad, J. Reed, M. Mori, A. Bergqvist, M. Jordana, L. Bjermer, J. Erjefält (Lund, Sweden; Hamilton, Canada; São Paulo, Brazil; Bethesda, United States of America)
- P3888 Establishment of reference values for differential cell counts in nasal lavage of healthy young adults  
Y. Xie, J. Xie, K. Lai, N. Zhong (Guangzhou, China)
- P3889 The dietary antioxidant quercetin boosts pulmonary antioxidant defenses  
A. Boots, C. Albrecht, B. Olga, M. Hullmann, I. Foerster, G. Haenen, A. Bast, R. Schins (Duesseldorf, Germany; Maastricht, The Netherlands)
- P3890 Clinical evaluation of angiogenesis and coagulation in pulmonary sarcoidosis  
E. Popova, M. Lebedeva, A. Ponomarev, S. Bolevich, V. Osypenko (Moscow, Russian Federation)
- P3891 Detection of serum anti-endothelial cell antibodies (AECA) in COPD rats  
Y. Lin, Q. Zhang, X. F. Ling, S. Q. Sun (Nanjing, China)
- P3892 CD146 in the pathogenesis of COPD  
A. Kratzer, J. Salys, H. W. Chu, M. Zamora, L. Taraseviciene-Stewart (Denver, United States of America)
- P3893 Effects of steroids on inflammatory cell number and function in the proximal and distal airways  
G. Rankin, S. Wilson, D. Hall, J. Warner (Southampton, Stevenage, United Kingdom)

HALL 2-18

SESSION 410

12:50 - 14:40

**Thematic Poster Session: Novel mechanisms in lung injury**

**Chairs: C. Kaehler (Innsbruck, Austria), R. Morty (Giessen, Germany), D. Thickett (Birmingham, United Kingdom), M. Ochs (Hannover, Germany)**

- P3894 Nitrosative and cytokine status in patients with COPD and chronic cerebrovascular diseases (CCVD)  
S. Soodaeva, T. Li, I. Klimanov, A. Lisitsa, N. Kubysheva, L. Postnikova, O. Mironova, A. Fedin (Moscow, Nizhny Novgorod, Russian Federation)
- P3895 Leptin modulates host defense against chronic cigarette smoke inhalation in mice  
J. H. J. Vernooij, I. M. J. Eurlings, G. F. J. Konings, J. Tavernier, G. F. Joos, G. G. Brusselle, E. F. M. Wouters, K. R. Bracke (Maastricht, The Netherlands; Ghent, Belgium)
- P3896 Towards understanding the role of autoreactivity in COPD  
T. Mes, T. Bijma, M. Nawijn, C. A. Brandsma, D. Bonarius, M. van Dijk, H. Kerstjens, W. Timens (Groningen, The Netherlands)
- P3897 Paraoxonase activity in patients with COPD  
T. Teke, E. Maden, A. Kiyici, T. T. Bekci, S. S. Erdem, M. Tosun, K. Uzun (Konya, Turkey)
- P3898 Bronchial antiproteases activation as a tolerance factor to COPD development in healthy long term smokers  
S. Fedosenko, G. Chernogoryuk (Tomsk, Russian Federation)
- P3899 Model of staged development chronic obstructive pulmonary disease (COPD) in rats  
I. Dvorakovskaya, E. Lebedeva, L. Danilov, N. Kuzubova (Saint-Petersburg, Russian Federation)
- P3900 Lipoxin A4 receptor expression in smokers with and without COPD  
L. Balode, S. Isajevs, D. Svirina, U. Kopeika, G. Strazda, I. Taivans (Riga, Latvia)
- P3901 Lung injury and apoptosis in COPD: Effect of a recombinant anti-protease derived from trappin-2  
A. Tanga, A. Saidi, S. Dallet-Choisy, M. L. Zani, T. Moreau (Tours, France)
- P3902 Effect of phototherapy in phospholipids' composition of membranes of lymphocytes in experimental COPD  
Y. Kayumova, Y. Tadjikhodjayeva, G. Sadikova (Tashkent, Uzbekistan)
- P3903 Possible role of 25-hydroxycholesterol on the pathogenesis of chronic obstructive pulmonary  
H. Sugiura, A. Koarai, T. Ichikawa, M. Ichinose (Wakayama, Japan)
- P3904 Time course analysis of lung function and morphometric parameters in a murine model of emphysema  
C. Olivo, B. Scarpa, F. Almeida, P. Arantes, F. Lopes, M. Martins (São Paulo, Brazil)
- P3905 Effects of cancer cachexia on the alveolar morphology of the mouse lung  
T. Graulich, S. K. Das, G. Krasteva, L. Wessels, G. Höfler, C. Mühlfeld (Giessen, Germany; Graz, Austria)
- P3906 Aerobic training performed for short time do not decrease pulmonary allergic disease in mice  
R. A. da Silva, R. de Paula Vieira, F. M. de Almeida, C. R. Olivo, B. M. Saraiva, M. A. Martins, C. R. F. de Carvalho (São Paulo, Brazil; Freiburg, Germany)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P3907 Contribution of TGF $\beta$ 1 and TIMP2 to clinical activity of asthma and COPD  
N. Abolfath Zade Ghalejooghi, M. Ghanei, M. R. Nourani, A. Amini Harandi, A. A. Imani Fooladi (Tehran, Islamic Republic of Iran)
- P3908 The role of cathepsin D, H & K in the regulation of tumstatin levels in asthmatic airways  
J. Burgess, K. Grafton, G. Tjin, J. Middelburg, P. van Egmond, J. Black, B. Oliver (Sydney, Australia; Utrecht, The Netherlands)
- P3909 Inhibitory profiles of alpha-1-antitrypsin from PiZ & PiSZ individuals and implications for tissue destruction in emphysema  
N. Sinden, T. Dafforn, R. Stockley (Birmingham, United Kingdom)
- P3910 Acute effects of an aerobic exercise session on airway inflammation in a murine asthma model  
R. A. da Silva, R. de Paula Vieira, F. M. de Almeida, C. R. Olivo, B. M. Saraiva, M. A. Martins, C. R. F. de Carvalho (São Paulo, Brazil; Freiburg, Germany)
- P3911 High doses of N-acetylcysteine alone or in combination with inhaled corticosteroids and oxidative stress in patients with COPD  
V. Kapustina, S. Ovcharenko, P. Litvicki (Moscow, Russian Federation)
- P3912 Ceruloplasmine efficacy in patients with asthma exacerbations  
U. Farkhutdinov, S. Farkhutdinov (Ufa, Russian Federation)
- P3913 Dynamics of oxidative stress parameters in exhaled breath condensate at controller treatment of bronchial asthma in patients with cold airway hyperresponsiveness  
J. M. Perelman, N. M. Goryachkina, A. G. Prikhodko, E. A. Borodin (Blagoveschensk, Russian Federation)

HALL 2-19

SESSION 411

12:50 - 14:40

**Thematic Poster Session: Obstructive sleep apnoea: clinical aspects II****Chairs: J. Montserrat (Barcelona, Spain), J. De Backer (Edegem, Belgium)**

- P3914 Autonomic cardiac modulation response due to the use of an oral appliance to treat OSA – Pilot study  
R. Hirata, F. S. Leitao Filho, L. Sampaio, S. Nacif, P. Bosio, N. Faria Junior, L. V. Oliveira, L. C. Giannasi (São Paulo, Fortaleza, Brazil)
- P3915 Evaluation of the relations between the obstructive sleep apnea syndrome and obesity by standard antropometric obesity indexes  
E. Levent, A. Soylu, N. Sariman, S. Yurtlu, S. Alparslan, A. Saygi (Istanbul, Turkey)
- P3916 Validation of a new auto adjusting bilevel algorithm in complicated sleep disordered breathing patterns  
W. Randerath, W. Galetke, J. Ficker, K. H. Rühle, C. Schumann, T. Piepgras, S. Wolff, A. Oltmann, C. Priegnitz, M. Treml (Solingen, Cologne, Nuremberg, Hagen, Ulm, Karlsruhe, Klingenmünster, Germany)
- P3917 Alternative method for non-invasive automatic positive airway pressure therapy in OSAS patients  
L. Rohling, M. Eijsvogel (Enschede, The Netherlands)
- P3918 Detection of bed-exit events using a new wireless bed monitoring assistance  
M. Bruyneel, W. Libert, V. Ninane (Brussels, Belgium)
- P3919 Reliability of apnea/hypopnea index (AHI) determined by two different auto-CPAP in patients with obstructive sleep apnea syndrome (OSAS)  
A. Marinou, C. Leone, B. Mastropasqua, A. Foresi (Sesto San Giovanni, Italy)
- P3920 Effects of reduced lung volumes and age on oxyhemoglobin nocturnal desaturation in obstructive sleep apnea patients before and after CPAP treatment  
M. Guglielmo, D. Lodico, C. Ciacco, L. Zito, K. Bannout, F. Gamna, R. Torchio (AOU San Luigi, University, AOU S.Luigi, Italy)
- P3921 Early, short and long-term efficacy of the new American Academy Sleep Medicine (AASM) protocol for CPAP titration in patients with obstructive sleep apnea (OSA)  
L. Gadaleta, P. Fulgoni, O. Resta, N. D'artavilla Lupo, I. Risi, A. Carlucci, M. Mancini, F. Fanfulla (Bari, Pavia, Italy)
- P3922 Overnight oximetry as a screening tool for moderate or severe obstructive sleep apnoea  
S. Sharma, J. C. Ratoff (East Grinstead, United Kingdom)
- P3923 Treatment adherence with CPAP for obstructive sleep apnea is influenced by mask leak  
M. Meshkat, J. Ebner, O. Burghuber, A. Valipour (Vienna, Austria)
- P3924 Reliability and validity of the Romanian version of the Epworth sleepiness scale  
L. E. Rosca, D. A. Todea, A. Rusu (Cluj Napoca, Romania)
- P3925 Factors affecting compliance in OSA patients treated with APAP  
S. Chandramouli, J. Furlong, D. Price, M. Haris, J. Hadcroft (Liverpool, United Kingdom)
- P3926 Comparison of CPAP treatment and oral appliance therapy in patients with severe OSAS  
I. Yilmazer, O. Öztürk, A. Akkaya, S. H. Tuna, M. Kayan, M. Tüz, S. Yasar, O. Koskan (Isparta, Turkey)
- P3927 Validation of the efficacy of an oral appliance for the treatment of obstructive sleep apnea in Brazil  
N. Faria Junior, F. S. Leitao Filho, L. Sampaio, I. Santos, I. Aguiar, S. Nacif, L. V. Oliveira, L. C. Giannasi (São Paulo, Fortaleza, Brazil)



- P3928 Concordance between the pediatric sleep questionnaire (PSQ) and polysomnography (PSG) in children with probable sleep apnea hypopnea syndrome (SAHS)  
J. L. Fernández Sánchez, A. R. Sánchez Sarrano, P. Gudiel Arriaza, S. Cadenas Menéndez, S. C. García Vicente, J. Márquez Márquez, M. Torrachi Carrasco, I. Alaejos Pascual, M. J. Bernabé Barrios (Salamanca, Spain)
- P3929 Effects of vertical opening on upper airway dimensions during drug-induced sleep endoscopy in patients with obstructive sleep apnea  
A. Vroegop, O. Vanderveken, P. Van de Heyning, M. Braem (Edegem, Belgium)
- P3930 The effects of breathing manoeuvres on the trigeminocardiac reflex reversal of artificially induced supraventricular tachyarrhythmias into the sinus rhythm  
R. Benacka, E. Sedlakova, J. Sedlak (Kosice, Slovakia)
- P3931 Is obstructive sleep apnea syndrome a risk factor for pulmonary thromboemboli?  
K. Ozmen Suner, A. N. Annakkaya, U. Toru, T. Dumlu, O. Balbay, P. Arbak, L. Yilmaz Aydin (Duzce, Hakkari, Turkey)

HALL 2-20

SESSION 412

12:50 - 14:40

**Thematic Poster Session: Prediction of pulmonary thromboembolism****Chairs: A. Ghofrani (Giessen, Germany), G. Simonneau (Clamart, France)**

- P3932 Late-breaking abstract: Significant association between protein C promoter region polymorphism and susceptibility to pulmonary thromboembolism in a Chinese Han population  
J. Liu, Y. Miao (Shanghai, China)
- P3933 Biochemical predictors of pulmonary embolism  
A. Ashraf, A. Lakhanpal, M. Gautam, T. Abiola, H. Burhan (Liverpool, United Kingdom)
- P3934 The frequency of chronic thromboembolic pulmonary hypertension and associated risk factors  
A. Korkmaz, T. Ozlu, S. Ozsu, Z. Kazaz, Y. Bulbul (Trabzon, Turkey)
- P3935 Prediction of pulmonary embolism in the pneumology departments: Clinical prediction rules  
H. Racil, M. Loukil, N. Ben Salem, S. Cheikh Rouhou, N. Chaouch, M. Zarrouk, A. Chabbou (Ariana, Tunisia)
- P3936 Age is a major risk factor of venous thromboembolism (VTE)  
N. Bizien, E. Noel-Savina, C. Tromeur, A. Delluc, D. Mottier, C. Leroyer, F. Couturaud (Brest, France)
- P3937 Improving the diagnostic yield of PE using the BTS pathway: The experience of a UK district general hospital  
C. Batista, T. Ho (Camberley, United Kingdom)
- P3938 Clinical presentations of pulmonary embolism in young adults  
N. Stoeva, D. Lekova, V. Hristova (Sofia, Bulgaria)
- P3939 The potential benefits of outpatient investigations of suspected pulmonary embolism (PE)  
M. J. Naveed, P. Mchale, M. Gautam, S. M. H. Kazmi, C. Smyth, H. Burhan (Liverpool, United Kingdom)
- P3940 Hyperglycemia as a independent predictor of mortality in acute pulmonary embolism  
I. C. Roca, V. Aursulesei, M. Roca, M. D. Datcu (Iasi, Romania)
- P3941 Assessment of pulmonary embolism severity index, D-dimer, cardiac biomarkers and multi detector computed tomography findings in patient with pulmonary thromboembolism  
B. Koyden, F. Alatas, H. Yildirim, G. Ak, M. Metintas, S. Erginel, E. Kurt, I. Ucgun, C. Bal (Eskisehir, Turkey)
- P3942 Improvement of thromboprophylaxis by attaching printed thrombosis risk assessment tool and recommendations to patient's hospital charts  
M. H. Rahimi-Rad, S. Seidsalehi, S. SeidSalehi (Urmia, Islamic Republic of Iran)
- P3943 Clinical manifestations and prediction rules in patients with pulmonary embolism and prior respiratory disease  
R. Baez-Saldana, M. Velazquez-Uncal, I. Cisneros-Chavez, O. Aburto-Valencia (Mexico City, Mexico)
- P3944 D-dimer testing and pre-test probability scoring in the diagnosis of venous thromboembolism  
P. Arora, A. Ali, S. Bikmalla, V. Punamiya, G. Ebbon, R. Mukherjee (Birmingham, United Kingdom)
- P3945 Diagnostic values of scoring systems in the clinical approach to pulmonary thromboembolism  
A. Gur, N. D. Bakan, G. Camsari, G. Ozkan, A. Yeter, B. Acikmese (Istanbul, Turkey)
- P3946 Biochemical predictors of mortality in pulmonary embolism  
A. Lakhanpal, A. Ashraf, L. Martin, A. Tridimas, J. Abbott, H. Burhan (Liverpool, United Kingdom)
- P3947 Trends in the incidence and case fatality of pulmonary embolism in hospitalized patients during 1997-2008 in China: A multicenter registration study  
Y. Yang, L. Liang, X. Peng, C. Wang (Beijing, China)
- P3948 CT pulmonary angiograms: Audit of probability of pulmonary embolus based on questionnaire  
J. Finnerty, M. Phitidis, S. Ranmuthu, S. Scott (Chester, United Kingdom)
- P3949 Diagnostic accuracy of unenhanced and gadolinium-enhanced magnetic resonance imaging for acute pulmonary embolism diagnosis: Results of the "IRM-EP" study  
O. Sanchez, M. P. Revel, S. Couchon, B. Planquette, A. Hernigou, R. Niarra, C. Lefort, G. Chatellier, G. Meyer (Paris, France)
- P3950 Influence of the initial venous thrombo-embolism event on outcome in patients with COPD: Findings from the RIETE registry  
L. Bertoletti, S. Quenet, S. Laporte, L. Hernandez, J. J. Martin-Villasclaras, C. Tolosa, M. Valdes, M. Barron, J. Todoli, M. Monreal (Saint-Etienne, France; Alicante, Malaga, Sabadell, Viladencans, Logroño, Valencia, Spain)

**Thematic Poster Session: Asthma management and response****Chairs: P. Paggiaro (Pisa, Italy), N. Thomson (Glasgow, United Kingdom), G. D'Amato (Naples, Italy)**

- P3951 Effects of formoterol-budesonide combination on residual eosinophilic inflammation in distal airway of patients with well-controlled moderate asthma  
H. Ohbayashi, N. Shibata, M. Adachi (Mizunami, Tokyo, Japan)
- P3952 Montelukast as add-on therapy may improve some indices of small airways involvement in uncontrolled asthmatics  
L. Malagrino, F. Costa, L. Melosini, A. Di Franco, G. Catapano, P. Paggiaro (Pisa, Italy)
- P3953 The eXpeRience registry: Monitoring the 'real-world' effectiveness of omalizumab in allergic asthma  
G. J. Braunstahl, J. Leo, C. W. Chen, R. Maykut, P. Georgiou, G. Peachey (Rotterdam, The Netherlands; Horsham, United Kingdom; East Hanover, United States of America; Basel, Switzerland)
- P3954 Omalizumab and malignancy: Interim results from the EXCELS study  
M. Eisner, M. Miller, W. Chou, A. Rahmaoui, M. Bradley (South San Francisco, United States of America)
- P3955 Factors influencing the relative effect of leukotriene receptor antagonists (LTRA) and inhaled corticosteroids (ICS) as monotherapy in persistent asthma: A systematic review  
B. Chauhan, F. Ducharme (Montreal, Canada)
- P3956 Real-life effectiveness of beclomethasone dipropionate/formoterol extra-fine combination in adult patients with persistent asthma  
G. G. Brusselle, P. Van Den Brande, R. Peché, B. Fonteyn, D. Iacono, M. Blockmans, J. Bruhwyler, W. Hollanders (Ghent, Duffel, Montigny-le-Tilleul, Zutendaal, Malmedy, Court-Saint-Etienne, Ecaussinnes, Brussels, Belgium)
- P3957 Effect of budesonide/formoterol, budesonide and terbutaline on exercise-induced bronchoconstriction in mild intermittent asthma  
N. Lazarinis, L. Bjermer, K. H. Carlsen, B. Dahlén, T. Ekström, G. Hedlin, L. Jörgensen, T. Pullerits, K. Larsson (Stockholm, Lund, Södertälje, Gothenburg, Sweden; Oslo, Norway)
- P3958 Randomized, placebo-controlled study of asthmatic smokers treated with montelukast or mid-dose fluticasone  
D. Price, T. Popov, L. Bjermer, S. Lu, R. Petrovic, A. Mehta, J. Strus, P. Peter, G. Philip (Aberdeen, United Kingdom; Sofia, Bulgaria; Lund, Sweden; Whitehouse Station, United States of America)
- P3959 'Real-life' persistence beyond the first year of omalizumab treatment in patients with severe allergic asthma: The R-Pixel study  
A. Michils, O. Vandenas, G. Brusselle, C. Lee, J. Van Schoor, S. Gurdain, C. Hermans, S. Vancayzeele, K. MacDonald, I. Abraham (Brussels, Yvoir, Ghent, Vilvoorde, Belgium; Earlysville, Oregon, Tucson, United States of America)
- P3960 Plasma and urinary concentrations of inhaled salmeterol in healthy and persons with asthma – Quantifying a doping limit  
M. Hostrup, J. Elers, J. Henninge, K. Dalhoff, V. Backer (Copenhagen, Denmark; Oslo, Norway)
- P3961 The effect of liposome inhalation on non-invasive oxidative stress markers in patients with bronchial asthma  
A. Lisitsa, I. Klimanov, S. Soodaeva (Moscow, Russian Federation)
- P3962 Quantitative IgE levels in asthma and implications for treatment with omalizumab. Are the cutoffs to narrow?  
M. L. Zaremba, K. Elliott, A. Redford, N. Shah, S. Ali, S. Reddy (Port Huron, United States of America)
- P3963 The effect of statin usage on airway inflammatory cells and markers, and clinical indices in asthmatic patients  
S. Olgun Tandogdu, B. Bagci Ceyhan, A. Ikin, R. Ahiskali (Istanbul, Turkey)
- P3964 Stability and achievement of asthma control with higher doses of inhaled corticosteroids regular treatment  
S. L. Cheng (Taipei, Taiwan)
- P3965 Comparison of the efficacy of ciclesonide with budesonide in mild to moderate asthma patients after step-down therapy  
K. C. Chiu, J. Y. Hsu, M. S. Lin, W. T. Liu, C. H. Wang, H. P. Kuo (Luodong Town, I-Lan County, Taichung, Chiayi, Taipei, Taiwan)
- P3966 The effect of GSK2190915, a 5-lipoxygenase activating protein inhibitor, on the early asthmatic response to inhaled allergen  
V. Norris, J. Bentley, S. Kent, D. Singh, M. Boyce, B. Leaker (Stevenage, Manchester, London, United Kingdom)
- P3967 Asthma control and lung function after step down from high dose ICS/LABA combination therapy  
P. Paggiaro, N. Gabriele, N. Crimi, L. M. Fabbri, D. Olivieri, A. Rossi, A. Papi (Pisa, Parma, Catania, Modena, Verona, Ferrara, Italy)
- P3968 Risks of diabetes mellitus and hyperglycaemic adverse events in patients with asthma taking inhaled corticosteroids  
P. O'Byrne, S. Rennard, R. Finn, S. Peterson, L. G. Carlsson, D. Sin (Hamilton, Vancouver, Canada; , United States of America; Lund, Sweden)
- P3969 Increased incidence of pulmonary embolism in severe asthma  
C. Majoor, P. Kamphuisen, L. Rijssenbeek-Nouwens, T. van der Poll, A. Zwinderman, P. Sterk, H. Büller, E. Bel (Amsterdam, The Netherlands; Davos Wolfgang, Switzerland)
- P3970 Effects of hydrocortisone on acute beta-blocker and histamine induced bronchoconstriction  
P. Short, P. Williamson, L. McKinlay, B. Lipworth (Dundee, United Kingdom)

**Thematic Poster Session: Drug delivery and pharmacokinetics II**

**Chairs:** O. Usmani (London, United Kingdom), M. Molimard (Bordeaux, France), H. Chrystyn (Huddersfield, United Kingdom), J. C. Virchow (Rostock, Germany)

- P3971 Safety, tolerability, pharmacodynamics (PD) and pharmacokinetics (PK) of GSK573719 inhalation powder in healthy subjects  
A. Cahn, R. Lovick, A. Newlands, A. Deans, I. Pouliquen, A. Preece, D. Kelleher, R. Mehta, R. Tal-Singer (Stevenage, Uxbridge, United Kingdom; Research Triangle Park, King of Prussia, United States of America)
- P3972 Safety, tolerability and pharmacokinetics (PK) of repeated doses of GSK573719 inhalation powder, a new long-acting muscarinic antagonist, in healthy adults  
R. Mehta, K. Harges, A. Cahn, A. Newlands, A. Donald, A. Preece, D. Kelleher, G. Crater (Research Triangle Park, United States of America; Uxbridge, Stevenage, United Kingdom)
- P3973 The pharmacokinetics (PK) and pharmacodynamics (PD) of repeat inhaled administration of fluticasone furoate (FF) in healthy Caucasian, Chinese, Japanese and Korean subjects  
A. Allen, J. Bal, A. Cheesbrough, M. Hamilton, R. Kempford (Stevenage, Stockley Park, Uxbridge, Ware, United Kingdom)
- P3974 The pharmacokinetics (PK) of fluticasone furoate (FF) in healthy Caucasian, Chinese, Japanese and Korean subjects  
A. Allen, J. Bal, A. Cheesbrough, M. Hamilton, R. Kempford (Stevenage, Stockley Park, Uxbridge, Ware, United Kingdom)
- P3975 Glycopyrrolate MDI demonstrates comparable efficacy and safety to tiotropium DPI in a randomized, double-blind, placebo-controlled phase 2b study in patients with COPD  
C. Orevillo, E. St. Rose, S. Strom, T. Fischer, M. Golden, M. Thomas, C. Reisner (Morristown, Raleigh, United States of America; Toowong, Australia)
- P3976 The absolute bioavailability of fluticasone furoate (FF) and vilanterol (VI) trifenatate following inhaled administration in combination in healthy subjects  
A. Allen, J. Bianco, J. Bal, L. Tombs, R. Kempford (Stevenage, Uxbridge, Slough, United Kingdom; Randwick, Australia)
- P3977 No pharmacodynamic (PD) and pharmacokinetic (PK) interaction of riociguat (BAY 63-2521) and aspirin  
R. Frey, W. Mück, S. Unger, M. Reber, J. Krättschmar, C. Becker, G. Wensing (Wuppertal, Germany)
- P3978 How can we improve patient use of inhaler devices in COPD?  
M. Molimard, K. Giorgi-Vigo (Bordeaux, France; Basel, Switzerland)
- P3979 Patient assessments of ease of use of Genuair® versus Aerolizer® and HandiHaler®  
R. Fuhr, H. Magnussen, D. Singh, G. de Miquel, C. Caracta, E. Garcia Gil (Berlin, Grosshansdorf, Germany; Manchester, United Kingdom; Barcelona, Spain; , United States of America)
- P3980 Comparison of the bronchoprotective effects of two salbutamol sulphate HFA pMDI using methacholine challenge testing  
J. Rebello, M. Mangale, S. Chachad, G. Malhotra, S. Purandare, S. Salvi, B. Brashier, A. Mesquita, L. Fernandes, G. D'Souza (Mumbai, Pune, Panaji, Bangalore, India)
- P3981 Preference of the inhaler device and assessment of the technique among the asthmatic and COPD patients  
W. Tarsin, I. Alshamli, M. Soussi (Tripoli, Triploi, Libyan Arab Jamahiriya)
- P3982 Pharmacokinetic evaluation of two HFA pMDI formulations of salmeterol xinafoate administered through a spacer in healthy subjects  
S. Chandran, N. Morde, J. Rebello, S. Chachad, S. Purandare, G. Malhotra, R. Jadhav, K. Iyer, R. Naidu (Mumbai, India)
- P3983 The aerodynamic particle size of mometasone furoate 100 µg and 200 µg dry powder formulations  
R. Berger, S. Li, H. Staudinger (Kenilworth, United States of America)
- P3984 Safety and tolerability of single doses of AZD5069 in healthy volunteers  
H. Wray, A. Sparrow (Loughborough, United Kingdom)
- P3985 No significant clinical drug-drug interaction potential with indacaterol  
S. Perry, P. Goldsmith, S. Vaidyanathan, P. Bhad, H. Einolf, R. Woessner, G. Kaiser, S. Jennings, B. Patterson (Horsham, United Kingdom; Hyderabad, India; East Hanover, United States of America; Basel, Switzerland)
- P3986 Fluticasone propionate/formoterol fumarate combination therapy is equally effective and well-tolerated when administered with or without a spacer device to patients with asthma  
D. Price, A. Papi, K. Kaiser, B. Grothe, M. Lomax (Aberdeen, Cambridge, United Kingdom; Ferrara, Italy; Muttenz, Switzerland)
- P3987 Effects of steady-state female hormones on single-dose pharmacokinetics of roflumilast and roflumilast N-oxide  
N. Nassr, A. Hünemeyer, R. Herzog, J. Scholpp, G. Lahu (Konstanz, Germany)
- P3988 Lack of effect of mild and moderate hepatic impairment or UGT1A1 genotype on the pharmacokinetics of inhaled indacaterol  
P. Goldsmith, S. Perry, H. He, R. Woessner, G. Kaiser (Horsham, United Kingdom; East Hanover, United States of America; Basel, Switzerland)

## TUESDAY SEPTEMBER 27

- P3989 In vitro comparison of aerosol characteristics of HFA albuterol (salbutamol) pressurized metered dose inhaler (pMDI) formulation from three valved holding chambers (VHCs)  
D. von Hollen, L. Slator, K. Nikander, R. Hatley (Parsippany, United States of America; Chichester, United Kingdom)
- P3990 Fluticasone propionate/formoterol fumarate combination therapy has superior efficacy to both fluticasone and formoterol alone  
D. S. Pearlman, C. LaForce, K. Kaiser (Denver, Raleigh, United States of America; Muttenz, Switzerland)

HALL 2-23

SESSION 415

12:50 - 14:40

## Thematic Poster Session: Airways disease comorbidities and general aspects

Chairs: R. Buhl (Mainz, Germany), A. Morice (Cottingham, United Kingdom)

- P3991 Systemic inflammation is enhanced by acute hyperglycaemia and suppressed by insulin in COPD  
J. Archer, E. Baker (London, United Kingdom)
- P3992 Risks of diabetes mellitus and hyperglycaemic adverse events in patients with COPD taking inhaled corticosteroids  
S. Rennard, P. O'Byrne, F. Radner, S. Peterson, E. Ekholm, B. Lindberg, D. Sin (Omaha, United States of America; Hamilton, Vancouver, Canada; Lund, Sweden)
- P3993 The relationship between acidic & non acidic gastro esophageal reflux disease (GERD) and asthma  
W. Tarsin, I. Alshamli, E. Alabbasi, E. Naas, M. Soussi (Tripoli, Libyan Arab Jamahiriya)
- P3994 Effects of pantoperazole on pulmonary function tests of chronic obstructive pulmonary disease patients, with and without gastro esophageal reflux  
F. Malek, R. Ghorbani, F. Yaghobi (Semnan, Islamic Republic of Iran)
- P3995 The relationship between obesity and distal airways  
G. Marin, N. Molinari, I. Vachier, P. Godard, P. Chanez, A. S. Gamez, A. Bourdin (Montpellier, Marseille, France)
- P3996 Treatment with inhaled corticosteroids (ICS) and long acting b2-agonists (LABA) combination in patients with COPD: Possible way of optimization  
T. Pertseva, K. Gashynova (Dnipropetrovsk, Ukraine)
- P3997 A comparative study to evaluate the effects of salmetrol/fluticasone and formoterol/budesonide combinations on lung functions and sleep quality in asthma  
M. Gupta, D. Chaudhry, P. Jindal (Rohtak, India)
- P3998 ACCORD COPD I: Safety and tolerability of twice daily aclidinium bromide in COPD patients  
A. D'Urzo, B. Make, E. Kerwin, L. Rekeka, E. Garcia Gil, C. Caracta, B. Maurer (Toronto, Canada; Denver, Medford, Jersey City, United States of America; Barcelona, Spain)
- P3999 Differences in adherence to inhaled steroid medication in COPD  
M. Brusse-Keizer, P. van der Valk, J. van der Palen (Enschede, The Netherlands)
- P4000 The Dutch hypothesis, implications for treatment of chronic obstructive pulmonary disease and asthma in a biomarker, monoclonal antibody world. Experience with IgE and omalizumab in a small pulmonary practice  
M. L. Zaremba, K. Elliott, A. Redford, S. Ali, N. Shah, S. Reddy (Port Huron, United States of America)
- P4001 The effect of L-arginine on ciliary function in primary ciliary dyskinesia (PCD)  
R. Hirst, N. Martin, M. Fadaee-Shohada, C. Smith, G. Williams, A. Rutman, C. O'Callaghan (Leicester, United Kingdom)
- P4002 Formoterol, but not indacaterol, induces transient hypoxemia in severe COPD  
R. W. Dal Negro, P. Pescatori, C. Micheletto, S. Tognella (Bussolengo, Italy)
- P4003 An audit on emergency oxygen administration and safety issues  
R. K. Yadavilli, N. Anwar, B. Bradley (Bolton, United Kingdom)
- P4004 No difference observed in the risk of malignancy in patients exposed to omalizumab compared with controls  
R. Buhl, C. Fernandez Vidaurre, M. Blogg, J. Zhu, M. D. Eisner, J. Canvin, W. Busse (Mainz, Germany; East Hanover, South San Francisco, Madison, United States of America; Horsham, United Kingdom)
- P4005 The ATTAIn study: Safety and tolerability of aclidinium bromide in chronic obstructive pulmonary disease  
E. D. Bateman, D. Singh, P. W. Jones, A. Agusti, R. Lamarca, G. de Miquel, C. Caracta, E. Garcia Gil (Cape Town, South Africa; Manchester, London, United Kingdom; Barcelona, Spain; , United States of America)
- P4006 Clinical efficacy of once-daily mometasone furoate in children with persistent asthma switched from treatment with fluticasone propionate  
S. F. Weinstein, M. Noonan, W. E. Berger, H. Staudinger (Huntington Beach, Portland, Mission Viejo, Kenilworth, United States of America)
- P4007 Fluticasone propionate/formoterol fumarate combination therapy has comparable efficacy to its individual components administered concurrently  
A. Bodzenta-Lukaszyk, J. A. van Noord, W. G. Schröder-Babo, K. McAulay, T. McIver (Bialystok, Poland; Heerlen, The Netherlands; Gelnhausen, Germany; Cambridge, United Kingdom)
- P4008 Body mass index, disease control and airway inflammation in asthmatic patients  
R. Pisi, M. Aiello, P. Tzani, E. Marangio, D. Olivieri, A. Chetta (Parma, Italy)

- P4009 How does obesity correlate with severe asthma?  
D. Gibeon, W. Banya, H. Markus, R. Suzanne, P. Bhavsar, K. F. Chung, A. Menzies-Gow (London, United Kingdom)
- P4010 Effects on adrenal function of a new combination of fluticasone propionate/formoterol fumarate administered to asthmatic patients and healthy subjects  
M. Tamm, K. Kaiser, B. Grothe, M. Lomax (Basel, Muttentz, Switzerland; Cambridge, United Kingdom)

## HALL 2-24

## SESSION 416

12:50 - 14:40

**Thematic Poster Session: Update on monitoring airway diseases**

**Chairs:** M. Corradi (Parma, Italy), B. Brashier (Pune, India), A. Papaioannou (Vrilissia Athens, Greece), M. Foschino (Bari, Italy)

- P4011 Relationship between immune status, viral load and lung functions of HIV-infected individuals in Bloemfontein South Africa  
E. Vermaak, E. van den Heever (Bloemfontein, South Africa)
- P4012 Assessing the burden of asthma and COPD in Salford UK: Retrospective analysis using a whole population electronic medical record  
J. New, M. Delderfield, N. Stein, S. Austin, J. Vestbo, A. Woodcock (Salford, Manchester, United Kingdom)
- P4013 Lipid peroxidation products-diagnostic utility in differentiation of pleural effusions  
J. Lalic, I. Lalic, I. Djordjevic, M. Ljubenovic (Nis, Republic of Serbia)
- P4014 Challenge already established: Identification of risk factors for early need for ventilatory support in Duchenne muscular dystrophy  
L. A. Tavares, M. T. Fonseca, L. M. Lasmar, A. L. Machado, V. L. Anastácio (Belo Horizonte, Brazil)
- P4015 ISAAC Malta: Changes in geographical distribution of wheezing children in Malta between 1994 and 2002  
P. Fsadni, C. Fsadni, M. Montefort, S. Montefort (Msida, Malta)
- P4016 The relationship between sleep respiratory disorder and daytime PaO<sub>2</sub> in OSAS and in overlap syndrome  
D. Lacedonia, F. Salerno, R. Sabato, P. Guido, L. Forte, G. E. Carpagnano, M. Carone, M. P. Foschino (Foggia, Cassano, Italy)
- P4017 Oxygen prescription and oxygen therapy on the wards according to British Thoracic Society Guidelines: Experience of an acute trust in the UK  
A. Jamil, B. Prathibha (Canterbury, United Kingdom)
- P4018 Computed tomography of the chest as a way to diagnose and monitor treatment of patients with sarcoidosis in Omsk, Russian Federation  
D. Petrov, N. Ovsyannikov, V. Gershevich (Omsk, Russian Federation)
- P4019 Ventilation heterogeneity is associated with asthma control in adults  
C. Farah, S. Downie, J. Kermode, N. Brown, K. Hardaker, G. King, N. Berend, C. Salome (Sydney, Glebe, Australia)
- P4020 The burden of airway hyperresponsiveness on the control of asthma  
A. Petroianni, V. Conti, E. Lemontzi, G. Continanza, M. Serao, I. Halili, S. Romani, C. Terzano (Rome, Italy)
- P4021 Audit of the impact of introducing exhaled nitric oxide (FE<sub>NO</sub>) monitoring to an adult asthma clinic in a district general hospital  
A. Wong, D. Orr, L. MacKay, G. Davies, L. Howieson, A. Smith (Wishaw, United Kingdom)
- P4022 Functional, clinical evolution and cellular inflammatory pattern in induced sputum in patients with difficult-to-control asthma  
E. Vera, E. Forcen, J. A. Carretero, J. A. Domingo, E. Chacon, A. Fernandez, S. Bello (Zaragoza, Spain)
- P4023 Relationship between circulating Th2 prevalence and asthma control in pregnant asthmatics  
A. Bikov, N. Eszes, A. Bohacs, A. Cseh, G. Toldi, V. Muller, J. Rigo, B. Vasarhelyi, G. Losonczy, L. Tamasi, I. Horvath (Budapest, Hungary)
- P4024 Chronious: A new wearable monitoring system for COPD patients  
L. Govoni, F. Ciancitto, T. Renda, F. Peroli, M. Picariello, A. Corrado, R. L. Dellaca (Milano, Florence, Padova, Italy; Erlangen, Germany)
- P4025 Using routine spirometry to obtain sputum samples in the respiratory clinic  
A. Pillai, B. Davies, V. Turner, D. Smith (Bristol, United Kingdom)
- P4026 Concordance between the new questionnaires to evaluate asthma control  
E. Luque, P. Guerrero, A. Gómez-Bastero, C. Romero, L. Mechbal, T. Montemayor (Sevilla, Spain)
- P4027 Data reduction for large scale cough studies using distribution of audio frequency content  
A. Barton, P. Gaydecki, K. Holt, J. Smith (Manchester, United Kingdom)
- P4028 Oropharyngeal pH evaluation to determine the presence of airway reflux in asthmatic patients  
W. Jackson, J. Burke, A. Morice (Cottingham, Hull, United Kingdom)
- P4029 Comparison of the asthma control test and % predicted FEV<sub>1</sub> in relation to correlation with physicians assessment of asthma control and treatment decisions  
U. Hoda, B. Kasternow, S. Laura, C. Chris (London, United Kingdom)
- P4030 Circulating nucleosomal DNA of blood as an indicator of the pathological process during chronic bronchitis  
I. Vasilyeva, T. Ivchik (Saint-Petersburg, Russian Federation)

**Thematic Poster Session: Bronchial hyperresponsiveness and exhaled and sputum biomarkers****Chairs: A. Spanevello (Tradate, Italy), P. Pignatti (Pavia, Italy), R. Louis (Liege, Belgium)**

- P4031 Efficiency of a laser-based sensor for FeNO measurements and multiple flows analysis  
J. Mandon, P. J. F. M. Merkus, S. M. Cristescu, F. J. M. Harren (Nijmegen, The Netherlands)
- P4032 The impact of diurnal variations, atopy, pollen exposure and pharmacotherapy on exhaled nitric oxide levels  
A. Bencova, M. Antosova, E. Rozborilova (Martin, Slovakia)
- P4033 Variability of sputum inflammatory mediators in alpha-1-antitrypsin deficiency and usual COPD  
H. Stone, G. McNab, R. Stockley, E. Sapey (Birmingham, United Kingdom)
- P4034 The application of mass spectrometry to the analysis and characterization of protein and peptide composition in exhaled breath condensate of pneumo-oncological diseased persons  
G. Kireeva, A. Ryabokon, A. Kononikhin, V. Bagrov, O. Pikin, E. Nikolaev, E. Anaev, S. Varfolomeev (Moscow, Russian Federation)
- P4035 Circadian variation of exhaled breath temperature in healthy subjects  
T. Kralimarkova, M. Rasheva, T. Grigorova, Z. Dimitrov, D. Tihomirov, R. Mincheva, V. Dimitrov, T. Popov (Sofia, Bulgaria)
- P4036 Exercise test with dry air inhalation compared to mannitol test as marker of exercise induced asthma  
K. H. Carlsen, L. Bjermer, B. Dahlén, T. Ekström, G. Hedlin, T. Stensrud, L. Jörgensen, K. Larsson (Oslo, Norway; Lund, Stockholm, Södertälje, Sweden)
- P4037 Evolution of cellular inflammatory pattern in induced sputum in patients with mild-moderate asthma for five years  
E. Forcen, E. Vera, A. Fernandez, J. A. Carretero, J. A. Domingo, E. Chacon, S. Bello (Zaragoza, Spain)
- P4038 Safety and efficacy of inhaled mannitol as a bronchial provocation test in children  
I. Vasilopoulou, M. Anthracopoulos (Patras, Greece)
- P4039 Comparison of two devices and two breathing patterns for exhaled breath condensate sampling  
A. R. Koczulla, E. Hüttmann, T. Greulich, A. Hattessohl, S. Noeske, S. Schmid, J. Gerrit, R. Jörres, B. Müller, C. Vogelmeier (Marburg, Munich, Germany)
- P4040 Prostaglandin E<sub>2</sub> and cysteinyl leukotriene concentrations in sputum supernatant in smoking asthma  
K. Kontogianni, P. Bakakos, K. Kostikas, G. Hillas, A. Papaporfyriou, P. Emmanouil, K. Matzouranis, M. Alchanatis, S. Papiris, S. Loukides (Athens, Greece)
- P4041 Adaptation of differential ion mobility spectrometry (DMS) for discrimination of specific biomarkers in exhaled breath in patients with severe renal-pulmonary dysfunction  
G. Becher, A. Hillmann, R. Purkhart, M. Graupner, R. Graupner (Bernau, Geyer, Altenburg, Germany)
- P4042 Clusters of biomarkers in exhaled breath detected by differential ion mobility spectrometry (DMS)  
G. Becher, R. Purkhart, A. Hillmann, R. Graupner, S. Marke, W. Steinhäusser, W. Scharff (Bernau, Geyer, Oberlichtenau, Hoechberg, Germany)
- P4043 Exhaled hydrogen sulfide in patients with chronic airway inflammatory disease  
Y. Chen, X. Wang, W. Yao, C. Tang (Beijing, China)
- P4044 Methodological aspects of nuclear magnetic resonance spectroscopy of exhaled breath condensate  
P. Montuschi, D. Paris, D. Melck, V. Lucidi, G. Ciabattini, A. Motta, on behalf of U-BIOPRED (Rome, Pozzuoli (Naples), Chieti, Italy)
- P4045 The nitric oxide (NO) metabolites in monitoring and therapy of bronchial asthma  
S. Soodaeva, I. Klimanov, A. Lisitsa, E. Zaprudnova (Moscow, Vladimir, Russian Federation)
- P4046 Increased levels of osteopontin in sputum supernatant in smoking asthma  
G. Hillas, S. Loukides, K. Kostikas, D. Simoes, K. Kontogianni, V. Delimpoura, E. Tseliou, S. Papiris, M. Alchanatis, P. Bakakos (Athens, Greece)
- P4047 Laboratory investigation of sputum and mucociliary clearance (MCC) condition in patients with COPD  
T. Pertseva, O. Lykholat, O. Gurzhiy (Dnepropetrovsk, Ukraine)
- P4048 The concentration of inflammatory cytokines in exhaled breath condensate in children with inflammatory bowel diseases  
K. Krenke, J. Peradzynska, J. Lange, K. Grzela, A. Banaszkiwicz, I. Lazowska, M. Kulus (Warsaw, Poland)
- P4049 Effects of outdoor temperature and humidity on methacholine challenge tests  
B. Sposato, M. Scalse, A. Pammolli, M. Di Tomassi, M. G. Migliorini, R. Scala, M. Naldi (Grosseto, Pisa, Sienna, Lucca, Arezzo, Italy)
- P4050 Are FENO indices useful diagnostic tools in suspected asthma? Experience of a routine lung function laboratory  
F. Schleich, R. Asandei, M. Manise, J. Sele, C. Graas, R. Louis (Liege, Belgium)

**Thematic Poster Session: Treatment strategies, systemic manifestations and biomarkers in airway diseases**

**Chairs:** Z. Lazar (Budapest, Hungary), K. Kostikas (Karditsa, Greece), T. Popov (Sofia, Bulgaria), G. Carpagnano (Bari, Italy)

- P4052 Markers of airway inflammation and airway hyperresponsiveness remain stable in untreated asthmatics over time  
P. B. Udesen, C. Porsbjerg, C. G. Westergaard, V. Backer (Copenhagen NV, Denmark)
- P4053 Airway resistance and reactance in COPD patients and healthy smokers, and effect of bronchodilators  
L. Svensson, J. Ankerst, L. Bjermer, E. Tufvesson (Lund, Sweden)
- P4054 Monitoring of efficacy of therapy with monoclonal antibodies – Omalizumab – Using the Recovery-ELISA  
P. Strohner, A. Staatz, A. Schaefer, G. Becher, D. Sarrach, J. Reich, T. Haeupl, J. O. Steiss (Berlin, Bernau, Giessen, Germany)
- P4055 Predicting performance of cough reflex sensitivity, exhaled nitric oxide (eNO) and bronchial responsiveness for efficacy of bronchodilator therapy on isolated chronic non-productive cough  
M. Fujimura, N. Ohkura, A. Tokuda, Y. Waseda (Kanazawa, Japan)
- P4056 Systemic inflammation in COPD: Is there a link with body composition?  
A. Lo Tam Loi, S. Hoonhorst, N. ten Hacken, J. W. Lammers, L. Koenderman (Utrecht, Groningen, The Netherlands)
- P4057 The relationship between comorbidities and systemic inflammation in patients with COPD  
A. Kocabas, G. Tezcagrir, G. Seydaoglu, E. Ozyilmaz (Adana, Turkey)
- P4058 Is the body mass index a determinant of inflammatory status and quality of life in asthma?  
R. López Reyes, M. Perpiña Tordera (Valencia, Spain)
- P4059 A comparative study of the correlations of the COPD assessment test (CAT) scores and high sensitive CRP levels to SPO<sub>2</sub>, FEV<sub>1</sub>, BODE index, and exacerbation rate  
H. Ghobadi, K. Beukaghazadeh, N. Fouladi (Ardabil, Islamic Republic of Iran)
- P4060 Analysis of atherosclerosis in patients with chronic obstructive pulmonary disease by carotid ultrasonography  
S. Tachibana, S. Sonobe, U. Fujii, Y. Fuchimoto, M. Shiojiri, K. Inoue, N. Nakanishi, T. Moritaka, Y. Yamaji, S. Tada, T. Kamei, N. Ueda (Matsuyama, Kannonji, Marugame, Takamatsu, Japan)
- P4061 Body composition analysis on COPD patients – Results of prospective study  
J. Plutinsky, I. Marget, P. Kubicova, P. Chlebo, D. Petras, D. Magula (Nitra, Slovakia)
- P4062 Identification of microorganisms based on gas chromatography-mass spectrometric analysis of volatile organic compounds in headspace gases  
J. J. B. N. van Berkel, E. E. Stobberingh, M. L. L. Boumans, M. Moonen, E. F. M. Wouters, J. W. Dallinga, F. J. van Schooten (Maastricht, Horn, The Netherlands)
- P4063 Pathological changes in the skeletal muscles in COPD patients  
M. Elnady, M. Sharaf El-Din, Y. Amin, A. El-Hindawy (Cairo, Egypt)
- P4064 Plasma VEGF correlates with right ventricular function in pulmonary hypertension  
J. Pako, A. Bikov, K. Karlocai, G. Csosza, D. Kovacs, G. Losonczy, I. Horvath (Budapest, Hungary)
- P4065 Airway dimensions and pulmonary phenotypes in a heavy smoking population  
A. Dijkstra, D. Postma, P. van Ooijen, J. Vonk, P. Zanen, M. Schmidt, H. Groen, F. Mohamed Hoessein (Groningen, Utrecht, The Netherlands; Bremen, Germany)
- P4066 Interrelations between brainstem auditory evoked potential and visual evoked potential abnormalities in stable COPD patients  
D. Agarwal, A. Atreja, P. P. Gupta, S. Sood (Rohtak, India)
- P4067 Comorbidities in the course of chronic obstructive pulmonary disease  
I. Zayani, F. Chermiti Ben Abdallah, A. Chtourou, S. Taktak, R. Mahouachi, A. Ben Kheder (Ariana, Tunisia)
- P4068 Usefulness of a panel of sputum markers in the evaluation of lung inflammation and functional impairment in symptomatic smokers and COPD patients  
G. Paone, V. Conti, A. Leone, M. Rulli, A. Vestri, G. Puglisi, F. Benassi, I. Cammarella, A. Sebastiani, C. Terzano (Rome, Italy)
- P4069 Airway and inflammatory profile of ORL rats: An asthma phenotype?  
E. Rodriguez, J. S. Barthold, M. Armani, K. Michelini, Y. Zhu, J. Wang, M. R. Wolfson, T. Shaffer (Wilmington, Philadelphia, United States of America)
- P4070 Impact of pulmonary tuberculosis infection on chronic obstructive pulmonary disease  
J. G. Li, H. B. Ghimire (Guangzhou, China)

## TUESDAY SEPTEMBER 27

HALL 2-27

SESSION 419

12:50 - 14:40

**Thematic Poster Session: Diagnosis and treatment of inflammatory respiratory diseases****Chairs: R. Jonkers (Amsterdam, The Netherlands), B. J. O'Connor (London, United Kingdom), D. Bumbacea (Bucharest, Romania)**

- P4071 The nose as a research tool: Intra-subject variability in nasal sampling  
A. Feneley, M. Rainer, F. Haider, B. Narayanswamy, J. Stenning, C. Mordin, S. Greenaway, G. Clarke (London, United Kingdom)
- P4072 Specific nasal challenge in the diagnosis of alternaria-induced asthma  
K. Porpodis, D. Latsios, D. Papakosta, T. Kontakiotis, C. Asaridou, K. Manika, D. Gioulekas, K. Zarogoulidis (Thessaloniki, Greece)
- P4073 Rhinology findings and their clinical usefulness for closer asthma fenotyping  
O. Ruzickova-Kirchnerova, V. Hrabe, I. Malkusova, M. Terl, P. Panzner, J. Kuntscherova (Pilsen, Czech Republic)
- P4074 Mild asthmatic patients consistently respond to natural, low dose, allergen challenge in an EEC  
D. Patel, N. Patel, J. Lee, P. Couroux, R. Hafner, A. M. Salapatek (Mississauga, Canada; Oxford, United Kingdom)
- P4075 Tuberculin skin test sensivity in asthma patients  
S. Demirbas, F. Ozer (Konya, Turkey)
- P4076 Multiplexed IgE determination in relation to asthma, exhaled NO and bronchial reactivity: Results from a population based survey  
A. Patelis, M. Gunnbjörnsdottir, A. Malinovsky, P. Mattsson, A. Önell, M. Högman, K. Alving, C. Janson (Uppsala, Gävleborg, Sweden)
- P4077 Experience of applying flow cytometry to analyze immune cells in saliva from COPD patients  
E. Altynbaeva, S. Teplova (Ozersk, Chelyabinsk, Russian Federation)
- P4078 Basophil activation test as support for distinguishing between aspirin-induced asthma and allergic reaction to ASA  
M. Caruso, G. Tringali, N. Pellegrino, M. Proiti, E. Basile, M. Cosentino, R. Polosa (Acireale, Catania, Italy)
- P4079 Health related quality of life and sense of coherence in adolescents with asthma  
K. Sundell Bergström, S. E. Bergström, G. Hedlin, A. Tunsäter (Stockholm, Lund, Sweden)
- P4080 Quantitative assessment of cysteinyl leukotrienes in human sputum during the allergen-induced asthmatic response and the effect of GSK2190915, a 5-lipoxygenase activating protein (FLAP) inhibitor  
G. L. Milne, W. Amin, S. C. Sanchez, A. F. Preece (Nashville, United States of America; Uxbridge, United Kingdom)
- P4081 Churg Strauss syndrome associated with montelukast treatment – Study case  
M. A. Man, M. Pop, D. Alexandrescu, R. Rajnoveanu (Cluj Napoca, Brasov, Romania)
- P4082 Age-specific background in inpatients with severe asthma exacerbation  
K. Sekiya, M. Taniguchi, H. Tanimoto, K. Akiyama (Kanagawa, Japan)
- P4083 Is it useful CD4+CD103+/CD4+ ratio for the diagnosis of lung sarcoidosis?  
L. Jurgauskiene, E. Danila, R. Malickaite (Vilnius, Lithuania)
- P4084 Premenstrual asthma and leukotriene variations in the menstrual cycle  
J. M. Bravo, A. Pereira, J. L. Sánchez, J. A. Maldonado, R. Vázquez, M. Alwakil, I. Vázquez, J. M. Ignacio (Huelva, Ronda, Spain)
- P4085 Chronic exposure to allergen and cigarette smoke induces predominantly features of COPD  
T. Maes, K. B. Moerloose, C. L. Van Hove, K. G. Tournoy, G. F. Joos (Ghent, Belgium)
- P4086 Passive smoking may influence respiratory allergic reaction  
T. Pavlovic, L. Nagorni, M. Mitic Milikic, D. Pavlovic (Belgrade, Republic of Serbia)
- P4087 Effect of dust aerosol in patients with asthma  
V. Singh, P. Gupta, N. Singh (Jaipur, India)
- P4088 What does healthy people know about asthma?  
A. Sá-Sousa, M. Gomes Couto, E. Burnay, T. Jacinto, M. Morais de Almeida, L. F. Azevedo, A. Bugalho de Almeida, J. Almeida Fonseca (Porto, Lisbon, Portugal)
- P4089 Severe asthma: Clinical features and management in Tunisia  
M. Loukil, S. Cheikh Rouhou, N. Ben Salem, H. Racil, N. Chaouch, M. Zarrouk, A. Chabbou (Ariana, Tunis, Tunisia)
- P4090 Characteristics of 51 asthmatics autopsied in São Paulo, Brazil from 2005-2009  
D. Ferreira, M. Dolhnikoff, T. Mauad (São Paulo, Brazil)

HALL 2-28

SESSION 420

12:50 - 14:40

**Thematic Poster Session: Experimental modulation of airway inflammation****Chairs: H.J. Hoffmann (Aarhus, Denmark), M. Dentener (Maastricht, The Netherlands), E. Mortaz (Utrecht, The Netherlands), D. Jungck (Bochum, Germany)**

- P4091 Inhibition of collagen receptors:  $\alpha 1\beta 1$  and  $\alpha 2\beta 1$  integrins, has no impact on lymphocytes, but decreases eosinophil transmigration through human extracellular matrix and collagen I coated inserts  
S. Bazan-Socha, J. Zuk, C. Marcinkiewicz, J. Musial (Krakow, Poland; Philadelphia, United States of America)



- P4092 Suppressive effect of a mint aqueous extract on IL-13 production  
F. Hajighasemi (Tehran, Islamic Republic of Iran)
- P4093 Role of thrombin-activatable fibrinolysis inhibitor in lipopolysaccharide-induced acute lung injury  
M. Naito, O. Taguchi, T. Takagi, T. Kobayashi, C. D'Alessandro-Gabazza, E. Gabazza (Tsu, Japan)
- P4094 Critical immunoregulatory role for activin-A in human allergic asthma  
S. Tousa, M. Semitekolou, I. Christopoulou, K. Samitas, G. Paraskevopoulos, C. Hawrylowicz, M. Gaga, G. Xanthou (Athens, Greece; London, United Kingdom)
- P4095 Fluticasone propionate decreases MUC5AC expression on airway epithelial cells induced by rhinovirus infection in the airway  
T. Okada, N. Fueki, M. Fueki, S. Makino, H. Sagara (Maebashi, Koshigaya, Japan)
- P4096 Standard therapy increases the sensitivity of peripheral blood lymphocytes to glucocorticoids in cystic fibrosis but not in severe asthma  
A. Pukhalsky, G. Shmarina, T. Vylegzhanina, T. Chervinskaya, O. Kozyreva, N. Kapranov, V. Alioshkin (Moscow, Russian Federation)
- P4097 Cultured normal human bronchial epithelial cells may produce collagen type I stimulation with TGF- $\beta$   
K. Kohyama, N. Fueki, R. Seki, A. Kohyama, T. Okada, H. Sagara (Koshigaya, Maebashi, Japan)
- P4098 Investigation of the effect of histone deacetylase 2 function on Wegener's granulomatosis  
D. Takagi, Y. Nakamaru, S. Fukuda (Sapporo, Japan)
- P4099 Polyphenolic compounds and experimentally induced allergic asthma  
S. Franova, M. Joskova, M. Sutovska, O. Pechanova, G. Nosalova (Martin, Bratislava, Slovakia)
- P4100 Cigarette smoke extract suppresses the maturation and function of bone marrow derived dendritic cells  
M. Givi, F. Redegeld, G. Folkerts, E. Mortaz (Utrecht, The Netherlands; Tehran, Islamic Republic of Iran)
- P4101 LSC 2011 Abstract: The effect of endothelin-1 on human basophil function in vitro  
K. Cima, S. Blunder, S. Desole, J. Günther, J. Löffler-Ragg, C. M. Kähler (Innsbruck, Austria)
- P4102 Resveratrol impairs the release of steroid-resistant cytokines from bacterial endotoxin-exposed alveolar macrophages (AM) in COPD  
J. Knobloch, D. Jungck, K. Urban, A. Koch (Bochum, Germany)
- P4103 Endothelin receptor B (ET<sub>B</sub>R) dependent GM-CSF mRNA stabilization explains the higher efficacy of bosentan vs. ambrisentan in the reduction of GM-CSF release from human airway smooth muscle cells (HASMCS)  
D. Jungck, J. Knobloch, K. Urban, E. Stoelben, J. Strauch, J. Behr, A. Koch (Bochum, Cologne, Germany)
- P4104 Effect of thrombin inhalation in a murine model of bronchial asthma  
T. Takagi, M. Onishi, M. Naito, A. Fujiwara, T. Kobayashi, H. Kobayashi, C. D'Alessandro-Gabazza, E. Gabazza, O. Taguchi (Tsu, Japan)
- P4105 Efficacy of inhaled anti-IL-13 mAb in a mouse model of asthma  
J. Hacha, M. Guéders, K. Tomlinson, G. Paulissen, N. Rocks, A. Noël, R. Palframan, D. Cataldo (Liege, Belgium; Slough, United Kingdom)
- P4106 Effects of corticosteroid and montelukast treatment on distal lung parenchyma and airway walls in inflammation in guinea pigs with chronic allergic inflammation  
E. A. Leick, N. B. Gobbato, F. C. R. Souza, C. Máximo Prado, M. Arruda Martins, I. Calvo Tibério (Sao Paulo, Brazil)
- P4107 Immune modulatory activity in probiotic supernatants  
I. Kepert, J. Fonseca, K. Hochwind, O. Eickelberg, M. Schmid, P. Schmitt-Kopplin, A. Hartmann, S. Krauss-Etschmann (Munich, Germany)
- P4108 The effect of *M. tuberculosis* chaperonin 60.1 on leukocyte migration  
Y. Riffo-Vasquez, A. Coates, C. Page, D. Spina (London, United Kingdom)
- P4109 Expression of hyperoxidized peroxiredoxins is enhanced in peripheral blood mononuclear cells of bronchial asthma patients  
Y. J. Bae, T. B. Kim, J. H. Roh, H. B. Moon, Y. S. Cho, K. A. Moon (Seoul, Kyung Sang Bukdo, Republic of Korea)
- P4110 LSC 2011 Abstract: P2Y<sub>2</sub> receptor regulates VCAM-1 membrane and soluble forms and eosinophil accumulation during lung inflammation  
G. Vanderstocken, B. Bondue, M. Horckmans, L. Di Pietrantonio, B. Robaye, J.M. Boeynaems, D. Communi (Brussels, Gosselies, Belgium)

HALL 2-29

SESSION 421

12:50 - 14:40

### Thematic Poster Session: Respiratory epidemiology: quality of life, therapy and socioeconomics

**Chairs: C. Suppli Ulrik (Virum, Denmark), J. Soriano (Bunyola, Spain)**

- P4111 Late-breaking abstract: Postmenopausal hormone replacement therapy is associated with increased risk of asthma hospitalization  
K. Bønnelykk, O. Raaschou-Nielsen, H. Bisgaard, A. Tjønneland, K. Overvad, Z. J. Andersen (Gentofte, Democratic People's Republic of Korea; Copenhagen, Aarhus, Aalborg, Denmark)

TUESDAY  
27

## TUESDAY SEPTEMBER 27

- P4112 Lung function and anxiety in association with dyspnoea – The HUNT study  
L. Leivseth, T. I. Lund Nilsen, X. M. Mai, R. Johnsen, A. Langhammer (Trondheim, Levanger, Norway)
- P4113 Functional health status and satisfaction with health in a population reporting a participation or activity limitation: Focus on COPD  
D. Goodridge, J. A. Lawson, D. Marciniuk, D. C. Rennie, K. Madani (Saskatoon, Canada)
- P4114 Lung function decline predicts disability in valued life activities, which in turn predicts impaired quality of life in COPD  
P. D. Blanc, J. Singer, T. A. Omachi, G. Sanchez, C. Iribarren, M. Cisternas, P. P. Katz (San Francisco, Oakland, Carlsbad, United States Of America)
- P4115 Recreational activity limitation in subjects with and without COPD in five Latin American cities: The PLATINO study  
M. Montes de Oca, C. Talamo, D. Moreno, A. Menezes, R. Perez-Padilla, M. Lopez, A. Muiño, J. Jardim, G. Valdivia, J. Pertuze, R. Halbert (Caracas, Venezuela; Pelotas, São Paulo, Brazil; Mexico City, Mexico; Montevideo, Uruguay; Santiago, Chile; Los Angeles, United States Of America)
- P4116 ECME: Epidemiologic study of the characteristics of women with COPD in Spain  
S. Mayoralas, S. Diaz Lobato, E. Anton, X. Ribera, I. Unzueta (Madrid, Barcelona, Spain)
- P4117 The restrictive spirometric pattern is associated with impaired health-related quality of life  
S. Guerra, A. E. Carsin, J. P. Zock, B. Leynaert, C. Janson, D. Jarvis, J. M. Anto (Barcelona, Spain; Paris, France; Uppsala, Sweden; London, United Kingdom)
- P4118 Dyspnoea in COPD patients recorded in a primary care database  
H. Mullerova, C. Lu, M. Tabberer (Uxbridge, United Kingdom)
- P4119 Symptoms experienced by COPD patients during exacerbations and their association with healthcare utilization – EXACO study  
I. Tillie Leblond, F. Masure, B. Housset, N. Roche, T. Perez, I. Boucot, F. Denis, A. Myftiu, J. Ostinelli, I. Pithois-Merli, C. Pribil, S. Schück (Lille, Reims, Créteil, Paris, Marly Le Roi, Rueil Malmaison, France)
- P4120 Medication and preventive measures for COPD in the BOLD study  
L. Gnatiuc, B. Kato, S. Coton, S. Buist, P. Burney (London, United Kingdom; Portland, United States Of America)
- P4121 Medication use in multi-symptom asthma: Results from the West Sweden asthma study  
L. Ekerljung, J. Lötval, B. Lundbäck (Gothenburg, Sweden)
- P4122 Correlates of high levels of use of short-acting beta agonists in asthma  
L. Laforest, J. Martin, I. Licaj, G. Devouassoux, G. Chatte, M. Broquet, E. Van Ganse (Lyon, Pierre Benite, Caluire, France)
- P4123 Ratio “inhaled corticosteroids to total anti-asthma drugs”, and asthma-related hospital admissions  
L. Laforest, J. Martin, I. Licaj, G. Devouassoux, G. Chatte, E. Van Ganse (Lyon, Caluire, France)
- P4124 The pattern of use of asthma medication in adolescents and young adults: A nationwide study on 2.2 million people  
L. Pedersen, E. Fosbøl, G. Gislason, F. Folke, C. Lund-Andersen, C. Torp-Pedersen, B. Vibeke (Copenhagen, Denmark)
- P4125 Inhaler use among asthmatics – A cross sectional study in Alappuzha and Kottayam districts of Kerala, India  
P. S. Shajahan (Kottayam, India)
- P4126 Comparing the cost-effectiveness of a wide range of COPD interventions using a stochastic population model for COPD  
M. Hoogendoorn, M. Rutten-van Mölken, R. Hoogenveen, M. Al, T. Feenstra (Rotterdam, Bilthoven, Groningen, The Netherlands)
- P4127 Fragmented care in asthma: Data from the French national claims database  
L. Laforest, J. Martin, I. Licaj, G. Devouassoux, G. Chatte, M. Broquet, E. Van Ganse (Lyon, Caluire, France)
- P4128 Productivity loss in ever-smoking COPD subjects from a general population  
R. Nielsen, A. Johannessen, P. S. Bakke, E. R. Omenaas, A. Gulsvik (Bergen, Norway)
- P4129 Socioeconomic correlates of hospitalization, medical visits and utilization of diagnostic tests in asthmatic children in Poland  
J. E. Zejda, G. M. Brozek, I. Smolka (Katowice, Poland)

HALL 2-30

SESSION 422

12:50 - 14:40

**Thematic Poster Session: Respiratory epidemiology: prevalence, incidence and remission****Chairs: M. S. Jaakkola (Oulu, Finland), E. Ronmark (Lulea, Sweden)**

- P4130 Late-breaking abstract: Allergic sensitization to common airborne allergens among adults in urban and rural northern Vietnam: Results from a population survey  
L. Hoàng Thi, T. Nguyen Van, B. Lundbäck, E. Rönmark (Stockholm, Sweden; Hanoi, Viet Nam)
- P4131 Increase of multi-sensitization to airborne allergens among adults from 1994 to 2009  
K. Warm, H. Backman, S. Sundberg, A. Lindberg, B. Lundbäck, E. Rönmark (Lulea, Umea, Gothenburg, Sweden)
- P4132 Prevalence of asthma symptoms among Croatian school children is still increasing  
S. Banac, K. Manestar, V. Rozmanic, Z. Korotaj Rozmanic, I. Vidovic, M. Šerer, N. Švraka, T. Petric (Rijeka, Croatia)

- P4133 Changes in asthma remission or control in the last decade in Italy  
L. Cazzoletti, A. G. Corsico, A. Grosso, E. Ansaldo, V. Ronzoni, B. Tripon, P. Pirina, M. Bugiani, R. de Marco, I. Cerveri (Verona, Pavia, Sassari, Turin, Italy)
- P4134 Prevalence of asthma and allergies in childhood in Guadeloupe  
E. Citadelle, X. Birembaux, L. Cordeau, J. Gotin, D. Laurac, M. Gouranton, G. Marcin, M. A. Mounouchy, C. Rambhojan, V. Cornely, R. Chantal (Pointe-à-Pitre, Basse-Terre, Guadeloupe; Pessac, Bordeaux, France)
- P4135 Prevalence of asthma symptoms in adult university students and workers in Elobeid – West Sudan  
O. Musa, A. Magzoub, A. Elsony (Khartoum, Sudan)
- P4136 Prevalence of asthma in Latin American middle-aged and older adults and its overlap with diagnosis of COPD  
A. M. Menezes, P. Hallal, M. Montes de Oca, A. Muino, M. V. Lopez Varela, C. Talamo, J. R. B. Jardim, G. Valdivia, R. Perez-Padilla (Pelotas, Sao Paulo, Brazil; Caracas, Venezuela; Montevideo, Uruguay; Santiago, Chile; Mexico City, Mexico)
- P4137 Screening study for chronic obstructive pulmonary disease among adults in Pleven  
P. Pavlov, Y. Ivanov, P. Glogovska, T. Popova, E. Borissova, V. Nozharov (Pleven, Bulgaria)
- P4138 Prevalence of chronic bronchitis in the Middle-East and North Africa: Interim results of the BREATHE study  
A. Khattab, A. Sayiner, J. Ahmed Khan, G. Iraqi, S. Nafti, A. Benkheder, B. Mahboub, M. L. Konisky, C. Nejari, N. Rashid, The BREATHE Study Group (Cairo, Egypt; Izmir, Turkey; Karachi, Pakistan; Rabat, Fez, Morocco; Algiers, Algeria; Tunis, Tunisia; Dubai, United Arab Emirates; Beirut, Lebanon)
- P4139 Chronic obstructive pulmonary disease in smokers with asthma  
P. Pavlov, Y. Ivanov, P. Glogovska, T. Popova, E. Borissova, V. Nozharov (Pleven, Bulgaria)
- P4140 COPD heterogeneity: An epidemiological perspective from the PLATINO study  
M. V. Lopez Varela, M. Montes de Oca, A. Muiño, C. Talamo, D. Moreno, A. Menezes, R. Perez Padilla, J. Jardim, G. Valdivia, J. Pertuze, R. Halbert (Montevideo, Uruguay; Caracas, Venezuela; Pelotas, Sao Paulo, Brazil; Mexico City, Mexico; Santiago de Chile, Chile; Los Angeles, United States Of America)
- P4141 COPD prevalence in Yigilca, a town in rural area of Duzce, Turkey: Insight from the Melen study  
L. Yilmaz Aydin, T. Dumlu, Y. Aydin, S. Bulur, M. E. Erkan, H. Coskun, K. Suner, H. Ozhan (Duzce, Turkey)
- P4142 Prevalence, relation to smoking and other factors of COPD: Evidence from population survey  
M. Gambaryan, A. Kalinina, S. Shalnova, A. Deev, A. Popugaev, E. Volkova, K. Ivanov (Moscow, Vologda, Chelabinsk, Yakutsk, Russian Federation)
- P4143 Smoking rates in the Middle-East and North Africa: Interim results of the BREATHE study  
M. Polatli, M. A. Tageldin, A. Javed, A. Alzaabi, N. Shahrouf, S. Taright, M. Beji, N. M. Obeidat, E. Uzaslan, A. El-Hasnaoui, The BREATHE Study Group (Aydin, Bursa, Turkey; Cairo, Egypt; Peshawar, Pakistan; Abu Dhabi, Dubai, United Arab Emirates; Damascus, Syrian Arab Republic; Algiers, Algeria; Tunis, Tunisia; Amman, Jordan)
- P4144 Tuberculosis status in Minoufiya Governorate, Egypt  
R. El Wahsh, R. Bakr, M. Zamzam, A. Farag (Shebin El Kom, Egypt)
- P4145 Prevalence of water pipe smoking among population in the City of Mashhad (north east of Iran)  
M. Boskabady, M. H. Boskabady, L. Farhang, M. Mahmoodinia, G. R. Heydari (Mashhad, Tehran, Islamic Republic of Iran)
- P4146 Epidemiology of smear-negative pulmonary tuberculosis in Sardinia (Italy) from 2000 to 2009: Role of ex-  
adjuvantibus treatment  
V. Spada, S. Oстера, C. Vertuccio, E. Atzeni, G. P. Ligia, E. Sortino, A. G. Fois, P. Pirina (Sassari, Nuoro, Cagliari, Italy)
- P4147 Enhanced surveillance for patients with novel H1N1 (nH1N1) in Tangerang District Indonesia  
D. Lokida, T. Martini, T. Trihono, V. Setiawaty, F. Mahoney (Tangerang, Jakarta, Indonesia)
- P4148 Different reference equations may affect COPD staging and treatment  
R. Russo, M. Pereira, O. A. Nascimento, A. Camelier, F. Rosa, A. M. Menezes, R. Pérez-Padilla, J. C. Vázquez-García, M. Lopez, M. M. de Oca, G. Valdívia, J. R. Jardim (São Paulo, Salvador, Pelotas, Brazil; Mexico City, Mexico; Montevideo, Uruguay; Caracas, Venezuela)

HALL 2-31

SESSION 423

12:50 - 14:40

**Thematic Poster Session: Respiratory epidemiology: methods, definitions and phenotypes****Chairs: D. Mannino (Lexington, United States of America), C. Svanes (Bergen, Norway)**

- P4149 Awareness of COPD in Portugal general practitioners, follow up 2010  
C. Bárbara, J. Cardoso, P. Pamplona, J. Moita, M. J. Matos, P. Simão, S. Conde, G. Coutinho (Lisboa, Coimbra, Matosinhos, Vila Nova de Gaia, Portugal)
- P4150 COPD in Portugal 2010, one step towards a better awareness  
C. Bárbara, J. Cardoso, P. Pamplona, J. Moita, M. J. Matos, P. Simão, S. Conde, G. Coutinho (Lisboa, Coimbra, Matosinhos, Vila Nova de Gaia, Portugal)
- P4151 Results of the World Spirometry Day in Buenos Aires, Argentina  
J. A. Mazzei, C. B. Alvarez, M. E. Mazzei, H. Esteva (C.A. Buenos Aires, Argentina)
- P4152 Early diagnosis of COPD in a high-risk population using spirometric screening in general practice  
C. Suppli Ulrik, A. Løkke, R. Dahl, L. Plauborg, J. Dollerup, L. Cederkvist Kristiansen, P. Hagge Cording, C. Dehlendorff (Hvidovre, Århus, Copenhagen, Ballerup, Lyngby, Denmark)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P4153 Is spirometry screening useful for detecting undiagnosed COPD?  
K. Levent, S. Murat, K. Fatma, A. Muhammet (Istanbul, Turkey)
- P4154 Spirometry test quality (home vs clinic performance) in a respiratory epidemiology survey in an Italian population sample  
G. Sarno, S. Maio, S. Baldacci, S. Cerrai, M. Fresta, F. Martini, A. Angino, F. Di Pede, G. Viegi (Pisa, Palermo, Italy)
- P4155 Lower limit of normal (LLN) for lung function parameters for over 80 year-old caucasians  
S. Accordini, A. Fois, B. Piras, G. Porqueddu, V. Spada, F. Borgo, R. de Marco, P. Pirina (Verona, Sassari, Italy)
- P4156 Canadian prediction equation of spirometric lung function for caucasian adults 18-90 years: Results from the Canadian obstructive lung disease (COLD) study and the Canadian ECRHS study  
COLD Investigators, ECRHS Investigators (Vancouver, Canada)
- P4157 Pulmonary resistance measured by impulse oscillometry system (IOS) seems to be related to self-reported COPD and respiratory symptoms  
S. Frantz, U. Nihlén, M. Dencker, G. Engström, C. G. Löfdahl, P. Wollmer (Malmö, Lund, Sweden)
- P4158 Definition and validation of a predictive model to identify COPD patients from administrative databases  
L. Bauleo, N. Agabiti, U. Kirchmayer, V. Belleudi, L. Pinnarelli, S. Cascini, D. Fusco, M. Arcà, M. Davoli (Rome, Italy)
- P4159 Respiratory symptoms, smoking history and airflow limitation: How should we define COPD?  
L. Vanfleteren, F. Franssen, G. Rohde, E. Wouters (Maastricht, Horn, The Netherlands)
- P4160 Dyspnoea, obstruction, smoking and exacerbation (DOSE) index and mortality in COPD  
J. Sundh, C. Janson, K. Lisspers, B. Ställberg, S. Montgomery (Örebro, Uppsala, Sweden)
- P4161 Determination of COPD characteristics via unsupervised clustering of the ECLIPSE cohort  
S. Rennard, B. Delafont, N. Locantore, A. Agusti, P. Calverley, E. Silverman, R. Tal-Singer, J. Vestbo (Omaha, Durham, Boston, Philadelphia, United States Of America; Paris, France; Barcelona, Spain; Liverpool, United Kingdom; Copenhagen, Denmark)
- P4162 Asthma with and without sinusitis, results from the Swedish GA<sup>2</sup>LEN study  
R. Middelveld, A. Ek, B. Forsberg, B. Lundbäck, S. E. Dahlén, C. Janson (Stockholm, Umeå, Gothenburg, Uppsala, Sweden)
- P4163 Statistical cluster analysis on the BTS refractory asthma cohort  
C. Newby, L. Heaney, A. Menzies-Gow, R. Niven, C. Brightling (Leicester, Belfast, London, Manchester, United Kingdom)
- P4164 The comparison of early and late onset asthma among elderly asthmatics  
B. Bozkurt, H. Sahin, D. Özol, Z. Yildirim (Ankara, Turkey)
- P4165 Wheezing in morbidly obese patients is not always due to asthma  
A. van Huisstede, A. Rudolphus, H. Zengerink, G. J. van de Geijn, P. Hiemstra, G. J. Braunstahl (Rotterdam, Leiden, The Netherlands)
- P4166 Incidence of asthma and wheeze during adolescence – The impact of study design  
L. Hedman, A. Bjerg, S. Sundberg, E. Rönmark (Lulea, Umea, Sweden)
- P4167 Reproducibility of an asthma symptoms and rescue medication diary: Paper and AM3™ modes  
A. Ireland, I. Wiklund, P. Dale, R. Hsieh, E. O'Rourke (Bethesda, United States Of America; Stockley Park, United Kingdom)
- P4168 Exclusion of asthma for screening purposes using exhaled air molecular profiling by electronic nose  
N. Fens, Y. Gaarthuis, A. C. Bos, N. J. J. Schlösser, P. J. Sterk (Amsterdam, Utrecht, Zutphen, The Netherlands)

HALL 2-32

SESSION 424

12:50 - 14:40

**Thematic Poster Session: Work-related respiratory diseases and specific exposures****Chairs: D. Fishwick (Sheffield, United Kingdom), P. Bakke (Bergen, Norway), J. Walusiak-Skorupa (Lodz, Poland)**

- P4169 Firefighter occupational exposures in forest fire settings – Three years of the FUMEXP project  
A. J. Ferreira, C. Robalo Cordeiro, P. Ferreira, A. I. Miranda, V. Martins, D. Xavier Viegas (Coimbra, Aveiro, Portugal)
- P4170 Systematic review of ill-health outbreaks associated with exposure to water-based metalworking fluids  
C. Burton, B. Crook, H. Scaife, G. Evans, C. Barber (Buxton, United Kingdom)
- P4171 Epidemiological study of the workforce after an outbreak of occupational asthma due to chromium and cobalt in an aerospace factory  
G. Walters, A. Robertson, V. Moore, C. Burge, A. Vellore, S. Burge (Birmingham, United Kingdom)
- P4172 Past dust and gas/fume exposure and COPD in Chinese: The Guangzhou Biobank cohort study  
K. B. H. Lam, P. Yin, C. Q. Jiang, W. S. Zhang, P. Zdad, M. Miller, G. N. Thomas, J. G. Ayres, T. H. Lam, K. K. Cheng (Birmingham, United Kingdom; Guangzhou, Hong Kong, China)
- P4173 Long term effect and allergic sensitization in newly employed workers in laboratory animal facilities  
B. M. Sundblad, L. Palmberg, M. Kupczyk, K. Larsson (Stockholm, Sweden)
- P4174 Cow hair sensitisation is uncommon among Danish dairy farmers despite high allergen levels  
V. Schlünssen, I. Basinas, E. Zahradnik, G. Elholm, O. Omland, M. Raulf-Heimsoth, T. Sigsgaard (Aarhus, Aalborg, Denmark; Bochum, Germany)
- P4175 Fungal colonization of oxygen humidifier and nebulizer chambers  
T. Sahasrabudhe, S. Jadhav, V. Kalley, N. Gandham (Pune, India)

- P4176 Prevalence of chronic obstructive pulmonary disease in male workers exposed to dust, gas and fume  
B. S. Choi, J. O. Lee, Y. Lee (Ansan, Republic of Korea)
- P4177 Occupational asthmogens and total IgE according to asthma status in the EGEA study  
O. Dumas, V. Siroux, B. Jacquemin, I. Pin, J. Bousquet, R. Nadif, F. Kauffmann, N. Le Moual (Villejuif, Grenoble, Montpellier, France)
- P4178 Irritative effects of respirable particles and chromium in non-smoking welders  
M. Lehnert, V. Harth, F. Hoffmeyer, R. Merget, K. Gawrych, K. Benjamin, H. Berresheim, E. Heinze, M. Raulf-Heimsoth, T. Weiss, B. Pesch, T. Brüning (Bochum, Germany)
- P4179 Respiratory work disability and occupational outcomes in adults with asthma and bronchial hyperresponsiveness  
N. Murgia, G. Paolucci, A. Gambelunghe, M. dell'Omo, I. Folletti, G. Muzi, G. Abbritti (Perugia, Italy)
- P4180 Enzyme immunoassay (EIA) for bacterial peptidoglycan (PGN) assessment in air and house dust samples  
P. S. Thorne, N. Metwali (Iowa City, United States Of America)
- P4181 Characterization of airborne organic dust exposure with limulus amoebocyte lysate – Test and whole blood assay  
V. Liebers, V. van Kampen, M. Düser, H. Stubel, T. Brüning, J. Bünger, M. Raulf-Heimsoth (Bochum, Germany)
- P4182 Bioactivity of <sup>14</sup>C-labeled endotoxin in aggregates, shed blebs and whole bacteria: Potency comparison in the LAL assay, cell cultures, and mouse bioassays  
P. S. Thorne, K. A. Hoppe, S. Hadina, A. Adamcakova-Dodd, J. P. Weiss (Iowa City, United States Of America)
- P4183 COPD causation and workplace exposures; an assessment of annual FEV<sub>1</sub> decline significance between expert clinical raters  
D. Fishwick, A. Darby, C. Barber, A. Curran, P. Blanc (Sheffield, United Kingdom; San Francisco, United States Of America)
- P4184 Respiratory symptoms, lung function tests and bronchial hyperresponsiveness among workers in petroleum industry  
S. Stoleski, J. Karadzinska-Bisljmovska, J. Minov, D. Mijakoski, S. Risteska-Kuc, L. Trajceva (Skopje, Fyrom)
- P4185 Dust exposure and respiratory symptoms; cross sectional study in Tanzanian coffee factories  
G. Sakwari, M. Brätveit, B. E. Moen (Bergen, Norway; Dar es Salaam, Tanzania, United Republic of)
- P4186 The investigation of stable nitric oxide (NO) metabolites correlation in exhaled breath condensate (EBC) in Chernobyl clean-up workers (CCUW) with COPD  
I. Klimanov, S. Soodaeva, A. Lisitsa, T. Marchenko (Moscow, Russian Federation)
- P4187 Biotoxicological pattern and related respiratory impairments in chemical laboratory workers  
F. Gradinariu, C. Croitoru, B. Scutaru, R. Danulescu, M. Margineanu, M. Ipate, M. Ghitescu, E. Danulescu (Iasi, Romania)
- P4188 Occupational allergy in apprentices hairdressers and hairdressers in region of Lodz, Poland  
P. Krawczyk-Szulc, B. Krecisz, D. Chomiczewska, M. Wiszniewska, M. Kiec-Swierczynska, E. Nowakowska-Swirta, J. Zgorzelska-Kowalik, C. Palczynski, A. Golinska-Zach, J. Walusiak-Skorupa (Lodz, Poland)

HALL 2-33

SESSION 425

12:50 - 14:40

**Thematic Poster Session: Work, the environment and respiratory disease**

**Chairs: O. Omland (Aalborg, Denmark), D. Nowak (Munich, Germany), I. Wouters (Utrecht, The Netherlands), L. Smit (Utrecht, The Netherlands)**

- P4189 Genetic risk factors for meat wrapper's asthma  
O. Vasilyeva, E. Kulemina, M. Kolyaskina (Moscow, Russian Federation)
- P4190 Upper airways irritation syndrome (UAIS) and loss of pulmonary function at the workers exposed to cotton dust  
M. Margineanu, F. Gradinaru, E. Danulescu, M. Ipate (Iasi, Romania)
- P4191 Use of shuttle test on a group of healthy sugar cane workers, Sao Paulo, Brazil  
R. Caldeira, A. M. Cartaxo, A. L. Albuquerque, G. Prado, D. Zanetta, M. Terra-Filho, U. de Paula Santos (Montes Claros, Campina Grande, Sao Paulo, Brazil)
- P4192 Prevalence of respiratory symptoms in 7154 state road transport workers from India  
M. Barne, K. Apte, S. Chhowala, B. Pachisia, B. Brashier, S. Madas, J. Gogtay, S. Salvi (Pune, Mumbai, India)
- P4193 Evaluation of cardiopulmonary effects and oxidative stress in sugarcane workers compared to a control population exposed to outdoor biomass air pollution  
G. Prado, U. Santos, M. Terra-Filho, D. Zanetta, R. Paceli (Sao Paulo, Sao Jose do Rio Preto, Brazil)
- P4194 Serum biomarkers analysis in workers with occupational salt dust exposure in underground conditions in dependence of length of service  
N. Denisevich, E. Kolesneva, L. Dubovskaya, I. Volotovskii (Soligorsk, Minsk, Belarus)
- P4195 Occupational risk factors may be of importance to define populations suitable to screening of lung cancer  
C. Paris, E. Bourgard, M. Gonzales, J. Corvisier, G. Feicht, N. Courouble, C. Clement-Duchene, A. Luc, I. Stucker, P. Brochard, J. Benichou (Vandoeuvre Les Nancy, Strasbourg, Villejuif, Bordeaux, Rouen, France)
- P4196 Feather duvet and idiopathic pulmonary fibrosis  
F. Morell, A. Villar, M. J. Cruz, M. A. Montero, X. Muñoz (Barcelona, Spain)
- P4197 The value of lymphocytosis in bronchoalveolar lavage in the differential diagnosis between idiopathic pulmonary fibrosis and chronic hypersensitivity pneumonitis  
A. Villar, F. Morell, J. de Gracia, M. Culebras (Barcelona, Spain)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P4198 The relation between air pollution and respiratory tract diseases by months in Duzce City of Turkey  
E. Gulec Balbay, O. Balbay, P. Arbak, A. N. Annakkaya (Duzce, Turkey)
- P4199 Influence of high values of air pollutants on number of asthma exacerbations in children from Pancevo in years 2009 and 2010  
S. Baumann, S. Prodanovic, S. Baumann, J. Prodanovic, S. Pakaski, M. Deanovic, M. Tanaskovic (Pancevo, Belgrade, Republic of Serbia)
- P4200 The relationship of air pollution and surrogate markers of endothelial dysfunction in a population-based sample of children  
M. Modaresi, P. Poursafa, R. Kelishadi, S. H. Javanmard (Tehran, Isfahan, Islamic Republic of Iran)
- P4201 Prediction of the acute mountain sickness using SaO<sub>2</sub> indices at rest and exercise in hypoxic conditions  
A. Sarybaev, A. Akunov (Bishkek, Kyrgyzstan)
- P4202 Airborne particulate matter (PM<sub>10</sub>) decreases respiratory activity in mitochondria isolated from lung tissue  
N. L. Delgado-Buenrostro, V. Freyre-Fonseca, C. M. García-Cuellar, Y. Sánchez-Pérez, Y. I. Chirino (Estado de México, Mexico City, Mexico)
- P4203 Prevalence of asthma and allergy symptoms and pulmonary function testing in sugar cane and tobacco field workers in Honduras  
J. Stevens, H. Eigen, M. Diaz (Indianapolis, United States Of America)
- P4204 Asthma and allergy to laboratory animals in university employees: Need for prophylaxis  
E. Ferraz, L. Karla Arruda, M. C. Borges, S. Kitamura, E. Bagatin, E. Oliveira Vianna (Ribeirão Preto, Campinas, Brazil)
- P4205 COPD and exposure to smoke biomass in non-smokers women in a semi-rural region of Tunisia  
N. Rahmouni, I. Zendah, I. Khouaja, L. Bayahi, A. Khattab, H. Ghedira (Ariana, Tunisia)
- P4206 Snoring and obstructive sleep apnea among former World Trade Center (WTC) rescue workers and volunteers  
R. de la Hoz, J. Mallea, S. Kramer, B. Laura, A. Rashmi (New York, United States Of America)
- P4207 Black carbon content in PM as a metric to evaluate the impact of the car-free Sundays of winter 2011 on air quality in Milan  
A. A. Ruprecht, G. Invernizzi, C. De Marco, R. Mazza, G. Mocnik, C. Sioutas, D. Westerdahl (Milano, Italy; Ljubljana, Slovenia; Los Angeles, Ithaca, United States Of America)
- P4208 The evaluation of the influence of occupational and non-occupational factors on the development of occupational COPD  
N. Mazitova, A. Saveliev, J. Galiullina, A. Ziganshina, Z. Berheeva, N. Amirov (Kazan, Russian Federation)

HALL 2-34

SESSION 426

12:50 - 14:40

**Thematic Poster Session: Anti-smoking interventions: prevention and treatment****Chairs: F. Mihaltan (Bucharest, Romania), P. I. Van Spiegel (Amsterdam, The Netherlands)**

- P4209 Breast change perception in women after smoking cessation  
C. De Marco, G. Invernizzi, R. Miceli, L. Mariani, A. Villarini, E. Munarini, R. Mazza, R. Boffi (Milan, Italy)
- P4210 Smoking prevalence and its effect on lung function and soluble adhesion molecules levels in medical students  
E. Makarova, N. Menkov, N. Lubavina, M. Shonia, G. Varvarina, V. Novikov (Nizhny Novgorod, Russian Federation)
- P4211 The role of smoking in development of endothelial dysfunction in patients with COPD in combination with AH  
O. Belina, N. Shaporova, M. Menshutina, V. Achkasova, O. Galkina, M. Kadinskaya, V. Didur (Saint-Petersburg, Russian Federation)
- P4212 Acute effects of water-pipe smoking on pulmonary function and cardio-pulmonary exercise capacity in healthy subjects  
F. Hawari, H. Ayub, N. Obeidat, I. Ghonimat, S. Dawahrah, T. Eissenberg (Amman, Jordan; Richmond, United States Of America)
- P4213 Waterpipe smoking in Lebanese women: A lower prevalence but a higher risk of dependence  
G. Khayat, P. Salameh, M. Waked (Beirut, Lebanon)
- P4214 Smoking in posttuberculosis bronchiectasis syndrome patients  
B. Mahler (Bucharest, Romania)
- P4215 Interrelationship between clinical symptoms expressiveness and brush-biopsy cell count and proteinases and its inhibitors in sputum at smokers and nonsmokers with COPD  
E. Bukreeva, R. Pleshko, G. Seitova (Tomsk, Russian Federation)
- P4216 Determinants of change in quality of life after smoking cessation of health care employees  
R. Finger, M. Tamm, B. Seiffert, M. Kuster, A. Meyer, D. Stolz (Basel, Switzerland)
- P4217 Public spirometry for primary prevention of smoking-related diseases?  
C. Wich, S. Zirlik, M. Frieser, K. Hildner, M. Neurath, F. Fuchs (Erlangen, Germany)
- P4218 Monitorization of tobacco industry arguments in printed press before and after smoke-free legislation in Turkey  
E. Dagli, M. Guner, E. Evrengil (Istanbul, Turkey)
- P4219 Modification of the international primary care airways group (IPAG)-questionnaire for Japanese  
G. Tsukuya, T. Samukawa, T. Hamada, K. Oketani, M. Soejima, H. Nagahama, H. Tsubouchi, H. Inoue (Kagoshima, Kagoshima, Japan)

- P4220 Smoking cessation motivation changes  
I. Pesic, B. Subotic, B. Gvozdenovic, L. Nagorni, V. Zugic, N. Lazovic (Belgrade, Republic of Serbia)
- P4221 Motives to quit smoking: Insight from the Melen study  
L. Yilmaz Aydin, H. Ozhan, T. Dumlu, S. Dikici, M. E. Erkan, S. Bulur, A. Gungor, G. Celbek (Duzce, Turkey)
- P4222 Factors associated with different patterns of adherence to treatment in a smoking cessation unit  
C. Almonacid Sanchez, J. Gallardo Carrasco, I. Sanchez Hernandez, J. P. Rodriguez Gallego, E. Guzman Robles, J. Castela Naval, J. Fernandez Frances, S. Quiros Fernandez, J. L. Izquierdo Alonso, P. Resano Barrio, O. Mediano (Guadalajara, Spain)
- P4223 Smoking cessation ward rounds – The impact on smoking patterns  
J. Maycock, V. Foy, P. Mulholland, D. Nazareth, S. Twite, P. Stockton (Liverpool, United Kingdom)
- P4224 Effectiveness of a cognitive orientation program with and without nicotine replacement therapy in stopping smoking in hospitalised patients  
B. Valencia, F. Ortega, A. Vellisco, E. Márquez-Martín, J. L. López Campos, A. M. Rodríguez, M. Ferrer, P. Cejudo, E. Barrot (Sevilla, Spain)
- P4225 Smoking cessation advice (SCA) and referral: Do we need to further educate healthcare professionals?  
H. Gittins, S. Patel, G. Ennals, J. Plant, J. Redfern, M. Shober, A. Collins, D. Nazareth, L. Davies (Liverpool, United Kingdom)
- P4226 Status of the smoking cessation and its costs in eastern Mediterranean countries in 2009  
G. Heydari (Tehran, Islamic Republic of Iran)
- P4227 Smoking assessment & treatment in hospital: Are we providing 'right care' and/or missing cannabis-smoking?  
L. Restrck, E. Cumbus, O. Thomas, M. Stern (London, United Kingdom)
- P4228 Optimal cut-off point of exhaled carbon monoxide to validate self-reported smoking status in healthy adults  
J. Zabatiero, D. Kovelis, M. Proença, K. Furlanetto, L. Mantoani, E. Ramos, F. Pitta (Londrina, Presidente Prudente, Brazil)

HALL 2-35

SESSION 427

12:50 - 14:40

**Thematic Poster Session: Epidemiology of smoking and smoking cessation interventions****Chairs: R. Sansores (Mexico City, Mexico), S. Belo Ravara (Covilha, Portugal)**

- P4229 Airway reactivity to inhaled mannitol in young water pipe smokers  
J. Schmidlin, S. Albisser, M. Tamm, D. Stolz (Basel, Switzerland)
- P4230 Impact of active smoking on the severity and evolution of asthma  
W. El Khattabi, A. Aichane, Z. Berrada, H. Afif, Z. Bouayad (Casablanca, Morocco)
- P4231 Influence of smoking on symptoms, comorbidities and severity in a population with obstructive sleep apnea (OSA) versus control  
O. C. Deleanu, D. Pocora, A. E. Malaut, A. M. Nebunoiu, I. Mirelus-Mazilu, F. D. Mihaltan (Bucharest, Romania)
- P4232 Bronchial hyperresponsiveness (BHR) to isocapnic hyperventilation of dry air (IHDA) in smokers is associated to airflow obstruction, chronic cough and beta-2-agonist treatment  
P. Blomstrand, S. Ekedahl, B. Schmekel (Jönköping, Linköping, Sweden)
- P4233 Influence of tobacco smoking on a lipid profile  
T. Levina, J. Krasnova, A. Dzizinskii (Irkutsk, Russian Federation)
- P4234 Indian smokers: A faster downhill course?  
B. V. M. Mohan, P. Asha, K. Hibare, R. Ramanjaneya (Bangalore, India)
- P4235 Tobacco information's in preoperative patients factsheets: A French survey  
M. D. Dautzenberg, M. Bougdal, J. Osman, B. Dautzenberg (Paris, France)
- P4236 Respiratory symptoms associated with cannabis and tobacco use in a north Edinburgh primary care population  
J. McKenzie, L. Copeland, J. MacLeod, R. Peter (Edinburgh, Bristol, United Kingdom)
- P4237 Education level and smoking  
G. Madonia, M. Davi, U. Madonia, E. Taormina, S. Miciletto, F. Impellizzeri, M. R. Furia (Palermo, Capaci, Italy)
- P4238 Young Finnish daily smokers are experts to assess their nicotine dependence  
T. Toljamo, A. Hamari, P. Nieminen, V. L. Kinnula (Rovaniemi, Oulu, Helsinki, Finland)
- P4239 The prevalence of tobacco smoking and respiratory symptoms among students of medical university  
T. Bilichenko, M. Tubekova, I. Yakhutlova, A. Lipanovskiy (Moscow, Russian Federation)
- P4240 Smoking among medical and non-medical students in Tbilisi, Georgia: Does education matter?  
I. Chkhaidze, N. Maglakelidze, T. Maglakelidze (Tbilisi, Georgia)
- P4241 Affective symptoms in smokers applying for smoking cessation clinic: Are they related to specific socio-demographic and clinical characteristics?  
F. Cosci, F. Pistelli, V. Viticchi, F. Aquilini, L. Carrozzi (Florence, Pisa, Italy)
- P4242 Hospital clinicians use of smoking AAAs  
B. Khan, L. Smith (Dartford, Maidstone, United Kingdom)
- P4243 Role of respiratory and cardiovascular disease as a motivational factor for smoking cessation  
O. C. Deleanu, T. Alexandru, R. Ulmeanu, O. M. Udrea, I. Mierlus-Mazilu, S. Mihaicuta, F. D. Mihaltan (Bucharest, Timisoara, Romania)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P4244 Smoking cessation: Results of three year's activity  
F. Becciu, M. F. Polo, S. Manca, S. Serreri, P. Pirina (Sassari, Italy)
- P4245 Making smoking cessation easier and closer the smoker: The results of Milan study of antismoking centers in pharmacies  
E. Munarini, A. Marmotti, A. Gardiner, G. Invernizzi, R. Mazza, C. De Marco, R. Boffi (Milan, Bologna, Italy)
- P4246 Nurses' and patients' communication in smoking cessation at nurse-led COPD clinics in primary health care  
E. Österlund Efraimsson, A. Ehrenberg, B. Fossum, K. Larsson, B. Klang (Stockholm, Falun, Sweden)
- P4247 Training pharmacists in the stage-of-change model of smoking cessation: A randomised controlled trial in Sicily  
M. Caruso, R. Polosa, P. Caponnetto (Acireale, Catania, Italy)
- P4248 Predictors of smoking cessation within a lung cancer CT screening trial  
F. Pistelli, F. Aquilini, L. Tavanti, S. Cini, B. Conti, F. Falaschi, A. Lopes Pegna, E. Paci, L. Carrozzi (Pisa, Florence, Italy)

HALL 2-36

SESSION 428

12:50 - 14:40

## Thematic Poster Session: Coping and lifestyle in childhood asthma

**Chairs:** M. Pijnenburg (Rotterdam, The Netherlands), A. Moeller (Zurich, Switzerland), L. Fleming (London, United Kingdom)

- P4249 Late-breaking abstract: Urinary leukotriene E<sub>4</sub>/exhaled nitric oxide ratio as a predictor of exercise-induced bronchoconstriction control by oral montelukast or inhaled corticosteroid  
H. S. Baek, Y. S. Jang, J. H. Kim, J. W. Oh, H. B. Lee (Seoul, Seiou, Republic of Korea)
- P4250 Demographics, clinical course and outcome of children with status asthmaticus treated in a pediatric critical care unit: 8 year review  
S. Sheikh, N. Khan, M. Frasure, M. Cestari, K. McCoy (Columbus, United States Of America)
- P4251 The outcome of asthma among Greek children  
M. Katsara, F. Kirvassilis, E. Hatziaorou, P. Mavridis, K. Kontouli, N. Kouskounelou, A. Mavroudi, I. Tsanakas (Thessaloniki, Greece)
- P4252 Asthma care community program focusing on primary care (PC) education: Train the trainer  
S. Sheikh, M. Chrysler, K. McCoy (Columbus, United States Of America)
- P4253 Assessment of inhalation technique: Reliability and validity of a checklist in preschool children with asthma  
E. de Groot, J. Harms, J. Bekhof (Zwolle, The Netherlands)
- P4254 Prevalence and control of current asthma in Portuguese paediatric population  
M. Ferreira-Magalhães, A. Sá-Sousa, M. Morais-Almeida, L. Azevedo, A. Bugalho-Almeida, J. A. Fonseca (Oporto, Lisbon, Portugal)
- P4255 Adolescent undiagnosed-wheeze; an unrecognised state associated with significant morbidity, tobacco and paracetamol use  
R. Kurukulaaratchy, A. Raza, H. Arshad, G. Roberts, B. Clayton, J. Grundy (Newport, United Kingdom)
- P4256 Asthma control test (ACT) versus intermittent oscillation system (IOS) assessment for control of asthmatic children  
M. Shaheen, E. Mohamed, M. El Ganzory (Cairo, Egypt)
- P4257 Parent administered questionnaire captures presence and severity of doctor confirmed wheeze in infants  
M. P. van der Schee, S. Hashimoto, E. Haarman, A. B. Sprikkelman, G. ter Riet, W. M. C. van Aalderen, P. J. Sterk (Amsterdam, The Netherlands)
- P4258 Assessing quality of care from the patients' and parent's perspective in three paediatric asthma settings; a randomised controlled study in children with stable asthma  
M. Kuethe, H. Sixma, A. Vaessen-Verberne, J. Booy, W. van Aalderen (Breda, Utrecht, Amsterdam, The Netherlands)
- P4259 Quality of life in asthmatic children "a comparative study of patients' and parents' perceptions"  
M. Shaheen, S. Mostafa, E. Zaki (Cairo, Egypt)
- P4260 Effects of exposure to parental smoking on pulmonary function and symptoms in children with asthma  
P. Panaghiotopoulou-Gartagani, P. Nikolaou, E. Kalampouka, E. Karavitakis, G. Kavadias, M. Chatzisimeon, A. Kaditis, C. Bakoula, G. Chrousos (Athens, Greece)
- P4261 Peri-natal weight gain and early development of recurrent wheeze and asthma in term children  
A. Sevelsted, H. Bisgaard (Gentofte, Denmark)
- P4262 Relation of asthma and body mass index in children  
A. Ahmadiashar, S. Tabbakhha, Z. Torabi, B. Falakflaki (Zanjan, Islamic Republic of Iran)
- P4263 Influence of obesity on pulmonary function (PF) in severe asthmatic children  
V. Giubergia, V. Aguerre, S. Caíno, H. Gonzalez Pena (Buenos Aires, Argentina)
- P4264 Assessment of physical activity with accelerometer in Brazilian asthmatic children  
A. Sousa, A. Cabral, M. Martins, C. Carvalho (São Paulo, Brazil)
- P4265 Relationships between body mass index and clinical and functional characteristics in childhood asthma: A cross-sectional analysis  
B. Mahut, N. Beydon, C. Delclaux (Paris, France)



- P4266 The influence of overweight/obesity on asthma symptoms among Dutch children  
M. Willeboordse, D. van den Bersselaar, K. D. van de Kant, J. W. M. Muris, C. P. van Schayck, E. Dompeling (Maastricht, The Netherlands)
- P4267 Leptin levels in obese and non-obese children with asthma  
S. S. Zivanovic, L. Saranac, B. Kamenov, B. Bjelakovic, S. Petrovic (Nis, Novi Sad, Republic of Serbia)

## HALL 2-37

## SESSION 429

12:50 - 14:40

**Thematic Poster Session: Biological correlates and comorbidities of childhood asthma/allergy****Chairs: K-H. Carlsen (Oslo, Norway), S. Saglani (London, United Kingdom)**

- P4268 Lung clearance index differentiates children with poorly controlled asthma better than FEF<sub>2575</sub>: Data from the paediatric asthma genes and environment study  
H. Sheridan, D. Miller, K. Macleod, S. Turner, S. Cunningham (Edinburgh, Aberdeen, United Kingdom)
- P4269 Subclinical small airway involvement in children with seasonal allergic rhinitis  
S. Fouzas, A. Lioliou, I. Vasilopoulou, M. Anthracopoulos, M. Triga (Patras, Greece)
- P4270 Spirometry and measurement of airway resistance by the interrupter technique (rint) in preschool children: Influence of atopy  
L. Leonardi, A. Rugiano, G. Giancane, A. di Coste, P. Panza, G. Tancredi, L. Indinnimeo, M. Duse (Rome, Italy)
- P4271 Clinical correlation & evaluation of spirometry in children with asthma  
K. Lahiri, M. Tullu, S. Anandi (Mumbai, India)
- P4272 Validation of tidal breathing analysis in the diagnosis of asthma among Filipino children aged 1 month-6 years  
S. Corpuz (Quezon City, Philippines)
- P4273 Do infants with bronchiolitis get any benefit with nebulized salbutamol?  
E. Hatziagorou, V. Avramidou, F. Kirvassilis, A. Mavroudi, J. Tsanakas (Thessaloniki, Greece)
- P4274 Exhaled breath temperature and nitric oxide in assessing children with and without respiratory disease  
M. Barreto, F. La Penna, A. Prete, S. Bonafoni, F. Biagiarelli, V. Negro, S. Barberi, M. P. Villa (Rome, Italy)
- P4275 Bronchial provocation testing (BPT) of pre-school children by acoustic respiratory monitoring (ARM) of wheeze (Wz) and cough (C)  
G. Livnat, C. Katz, M. Rotschild, Y. Toukan, L. Bentur (Haifa, Israel)
- P4276 Relationship between H1N1 induced asthmatic symptoms and airway hyperresponsiveness in children  
Y. H. Kim, J. Baek, H. B. Park, K. W. Kim, M. H. Sohn, K. E. Kim (Seoul, Republic of Korea)
- P4277 Malacia, inflammation and bacterial colonisation of the conducting airways in infants with persistent respiratory symptoms  
F. De Baets, I. De Schutter, C. Aarts, F. Haerynck, S. Van Daele, E. De Wachter, A. Malfroot, P. Schelstraete (Gent, Brussels, Belgium; Nijmegen, The Netherlands)
- P4278 Upper and lower airway inflammation and bronchial hyperresponsiveness in allergic rhinitis children with or without asthma  
A. Nakonechna, Y. Antipkin, T. Umanets, V. Lapshyn (Liverpool, United Kingdom; Kiev, Ukraine)
- P4279 Eosinophil cationic protein in children with respiratory allergies – When is it useful?  
I. Pavic, S. Dodig, M. Raos, J. Zivcic, R. Zrinski Topic (Zagreb, Croatia)
- P4280 Chemotaxis and adhesion from peripheral eosinophils in atopic asthmatic children with and without obesity  
M. Baptistella Grotta, E. Antunes, D. Squebola, A. Dalbo Contrera Toro, M. A. Ribeiro, S. Barros Mazon, J. D. Ribeiro (Campinas, Brazil)
- P4281 Specific IgE sensitisation in a six-year old infant cohort in New Zealand  
R. Siebers, P. Lampshire, K. Wickens, T. Ingham, M. Epton, I. Town, J. Crane (Wellington, Christchurch, New Zealand)
- P4282 Use of a very short protocol with no adjuvant in acute ovalbumin-sensitized allergic pulmonary response in mice for pre-clinical studies  
A. Rodrigues, C. Schmidt, L. Gualdi, R. Cao, R. Souza, N. Nuñez, A. Schleich, R. Stein, M. Jomes, P. Pitrez (Porto Alegre, Brazil)
- P4284 Different prevalence of allergic diseases between children allergic to cow's milk, egg and fish  
B. Kamenov, H. Stamenkovic, T. Stankovic, A. Kamenov, S. Kamenov (Nis, Republic of Serbia)
- P4285 Investigation of asthma prevalence in the adolescents of Russian Federation  
J. Levina, L. Namazova-Baranova, R. Torshkhoyeva, E. Vishneva, A. Tomilova, L. Ogorodova, I. Deev, K. Efendieva (Moscow, Tomsk, Russian Federation)
- P4286 Prevalence of allergic rhinitis in Russian adolescents  
A. Tomilova, L. Namazova-Baranova, R. Torshkhoeva, E. Vishneva, L. Ogorodova, I. Deev, J. Levina (Moscow, Tomsk, Russian Federation)

## TUESDAY SEPTEMBER 27

HALL 2-38

SESSION 430

12:50 - 14:40

## Thematic Poster Session: Cystic fibrosis: clinical and laboratory studies

**Chairs:** A. Lindblad (Svedalen, Sweden), S. Brown (London, United Kingdom), E. Kerem (Jerusalem, Israel), P. Latzin (Bern, Switzerland)

- P4287 Pulmonary function preservation with targeted antibiotic use in infants with CF  
J. Zirbes, C. Milla (Palo Alto, United States Of America)
- P4288 KL-6 serum levels in adult cystic fibrosis patients  
F. Piffer, A. Airoidi, M. Di Pasquale, G. Pizzamiglio, M. Zanardelli, S. Galbiati, B. Dallari, F. Blasi (Milano, Italy)
- P4289 Six minute walk test in children, adolescents and young adults with and without cystic fibrosis  
F. M. Pereira, M. A. Ribeiro, A. D. Toro, G. Hessel, A. F. Ribeiro, J. D. Ribeiro (Campinas, Brazil)
- P4290 Exhaled breath temperature in adult cystic fibrosis  
G. Garcia, N. Granero, B. Hendriksen, D. Carlos, B. Ezequiel, M. Bergna (La Plata, Vicente Lopez, Argentina)
- P4291 Detection of volatile hydrogen cyanide released by *pseudomonas aeruginosa* with cavity ring down spectroscopy  
E. P. M. Verschuren, M. Spunei, S. T. Persijn, S. Cristescu, F. J. M. Harren, J. W. Mouton, P. J. F. M. Merkus (Nijmegen, Delft, The Netherlands)
- P4292 *Achromobacter xylooxidans*: Friend or foe?  
L. Christiaens, P. Goeminne, L. Dupont (Leuven, Belgium)
- P4293 Impact of *Stenotrophomonas maltophilia* in cystic fibrosis: A retrospective analysis  
E. Dewaele, P. Goeminne, H. Scheers, L. Dupont, P. Van den Brande (Leuven, Belgium)
- P4294 The role of serum *pseudomonas aeruginosa* antibodies in diagnosis and follow-up of patients with cystic fibrosis  
D. Dogru Ersoz, S. Pekcan, E. Yalcin, U. Ozcelik, N. Kiper, N. Gurcan, B. Sener (Ankara, Konya, Turkey)
- P4295 *Stenotrophomonas maltophilia* and *achromobacter xylooxidans* in cystic fibrosis patients  
S. Gartner, M. Mumany, A. Ferrer, C. Martin, S. Rovira, A. Torrent, I. de Mir, A. Moreno (Barcelona, Spain)
- P4296 Preventable deaths and better outcomes in CF: Need for organising care at European standards in developing countries  
L. L. Dracea, L. Pop (Brasov, Timisoara, Romania)
- P4297 Genotype-phenotype correlation in cystic fibrosis patients bearing a novel complex allele  
R. Tesse, A. Polizzi, T. Santostasi, A. Diana, A. Manca, V. P. Logrillo, L. Cavallo (Bari, Italy)
- P4298 Twenty years of care for CF patients in Moscow region of Russia  
S. Krasovsky, A. Cherniak, E. Amelina, A. Voronkova, N. Kashirskaya, N. Kapranov (Moscow, Russian Federation)
- P4299 Phenotype and genotype in adult patients with cystic fibrosis in Uruguay  
A. Rey, G. Rutz, P. Edilberto, G. Rosario, M. López Varela (Montevideo, Uruguay)
- P4300 Non-classical or atypical cystic fibrosis, the unsalted truth: A small retrospective cohort study  
K. Thibaut, P. Goeminne, P. Van Bleyenbergh, L. Dupont (Leuven, Belgium)
- P4301 The peculiarities of basic metabolism in cystic fibrosis patients  
A. Orlov, A. Pashkevich, L. Jelenina (Saint-Petersburg, Russian Federation)
- P4302 Evaluation of disease knowledge in children with cystic fibrosis and their families  
I. Dicle Sargin, Y. Gokdemir, R. Ersu, B. Karadag, P. Ay, A. Topuzoglu, C. Cimsit, F. Karakoc (Istanbul, Turkey)
- P4303 An audit to assess the value of the MDT approach in patients in a UK CF unit  
M. Gautam, A. Ashish, M. Ledson, J. Naveed, M. Walshaw (Liverpool, United Kingdom)
- P4304 Improved turn around time for molecular genetic analysis for cystic fibrosis: The Irish experience  
F. Flanagan, L. Glackin, D. Slattery (Dublin, Ireland)
- P4305 Validation of the Spanish version of the Leicester cough questionnaire in children with cystic fibrosis  
J. Persegona, T. del Corral, N. López, A. Valiente, M. Garrida, M. Seborga, N. Trujillo, L. Hernandez, J. Villaró (Barcelona, Madrid, Sabadell, Spain)

HALL 2-39

SESSION 431

12:50 - 14:40

## Thematic Poster Session: Issues in paediatric and neonatal intensive care

**Chairs:** C. Roehr (Berlin, Germany), K. Bohlin (Alvsjö, Sweden), M. Chakraborty (Cardiff, United Kingdom)

- P4306 Downregulated BMPR2 signaling pathway in nitrofen-induced pulmonary hypoplasia  
M. Makanga, C. Dewachter, B. Rondelet, R. Naeije, L. Dewachter (Brussels, Belgium)
- P4307 Rho-kinase inhibitor ameliorates bleomycin-induced chronic lung injury in neonatal rats  
A. H. Lee, C. Kantores, J. Ivanovska, C. Sewing, R. P. Jankov (Toronto, Canada)
- P4308 Characterization of miRNAs circulating in sepsis patients' serum  
L. Xie, H. Wang, W. Chen, P. Zhang, L. Su (Beijing, Tianjing, China)
- P4309 Spontaneous respiratory activity during mechanical ventilation of term born infants  
O. Chowdhury, S. Kayode, S. Lee, S. Hannam, G. F. Rafferty, A. Greenough (London, United Kingdom)
- P4310 The influence of angiotensin-converting enzyme (ACE) genotype on the development of severe perinatal asphyxia in the neonates  
N. Gorovenko, S. Kyryachenko, Z. Rossokha (Kiev, Ukraine)

- P4311 Determinants of lung function in school aged children prematurely born before 32 weeks of gestation  
M. L. Choukroun, H. Feghali-Caron, F. Marquant, S. Vautrat, F. Nacka, V. Leroy, M. Fayon (Bordeaux, France)
- P4312 Infant spirometry at three months after birth in term and preterm infants  
K. Lidberg, P. Kosma, G. Hedlin, C. Palme-Kilander (Stockholm, Sweden)
- P4313 Predicting the safety of air travel in ex-premature infants  
A. Withers, A. Wilson, M. Sharp, S. Resnick, G. Hall (Perth, Australia)
- P4314 Outcome of congenital diaphragmatic hernia (CDH) in a non-ECMO unit  
C. Pandit, K. Walker, R. Halliday, R. Douglas, N. Badawi, D. Fitzgerald (Sydney, Australia)
- P4315 Positive end-expiratory pressure affects the value of intra-abdominal pressure in acute respiratory distress syndrome in newborn with diaphragmatic hernia  
D. Dmytriiev, K. Dmytriieva, O. Nazarchuk, K. Bercun, A. Staradub, K. Dmytriiev (Vinnitsa, Ukraine)
- P4316 The effect of body position on the arterial oxygen saturation of healthy premature neonates  
Z. Torabi, B. Falakflaki, A. Ahmadiashar (Zanjan, Islamic Republic of Iran)
- P4317 Association between severe bronchopulmonary dysplasia and serum HGF levels in premature infants during early postnatal life  
I. Hokuto, T. Arimitsu, M. Miwa, Y. Matsuzaki, K. Ikeda (Shinjuku, Japan)
- P4318 Cardiorespiratory variables of preterm infants near term  
A. K. Pugalenthi, C. Parsley, P. Gray, K. Iyer, S. Suresh (South Brisbane, Australia)
- P4319 Association between C-reactive protein levels and outcome in acute lung injury in children  
M. Bruijn, E. Jansen, T. Klapwijk, J. van der Lee, R. van Rijn, J. van Woensel, A. Bos (Amsterdam, The Netherlands)

HALL 2-40

SESSION 432

12:50 - 14:40

**Thematic Poster Session: General thoracic surgery II****Chairs: A. End (Vienna, Austria), C. Paleru (Bucharest, Romania), J. Pac Ferrer (Bilbao, Spain)**

- P4320 Long-term results of surgically treated non-small cell lung cancer patients depending on the protocol of preoperative N-staging  
A. Petrov, V. Pischik, M. Tlostanova, R. Orlova, P. Yablonsky (Saint-Petersburg, Russian Federation)
- P4321 The evaluation of surgical results in pT0-pT1 non-small cell lung carcinoma after induction therapy  
S. Gursoy, A. Ucvet, A. Erbaycu, S. OKaya, H. Koparal (Izmir, Turkey)
- P4322 Inspiratory capacity is a new preoperative risk predictor in the patients with lung cancer undergoing surgical resection  
N. Hashimoto, M. Matsuo, N. Usami, K. Yokoi, Y. Hasegawa (Nagoya, Japan)
- P4323 The clinical importance of preoperative incentive spirometry value in lung resections  
S. Ozalevli, D. Ilgin, H. Ersoz, I. Agababaoglu, A. Onen, A. Sanli, N. Ozdemir (Izmir, Turkey)
- P4324 The role of PET/CT in lung cancer staging  
K. Burc, S. T. Liman, S. Topcu, A. Elicora, A. G. Akgül, S. S. Mehmetoglu, A. Ilgazli (Kocaeli, Turkey)
- P4325 Omentoplasty for managing post-surgery complications of aspergilloma in a case of right pulmonary artery agenesis  
R. Miron, C. Grigorescu, V. Cojocariu (Iasi, Romania)
- P4326 Pseudotumoral lung tuberculosis – A controverted clinical and imagistic entity  
O. Burlacu, V. Voiculescu, G. Cozma, I. Miron, C. Tunea, I. Petrache, D. Vancea, V. Tudorache, A. Nicodin (Timisoara, Romania)
- P4327 Particular form of the primary thoracic hydatidosis – Case report  
C. Savu, V. Grigorie, C. Petreanu, N. Galie, E. Crisan, E. Tabacu (Bucharest, Romania)
- P4328 The comparison of exercise test in patients with lung resection candidates  
S. Ozalevli, D. Ilgin, H. Ersoz, A. Sanli, C. Sevinc, N. Ozdemir (Izmir, Turkey)
- P4329 The effect of neoadjuvant chemoradiotherapy on airway colonization and post operative respiratory complications in the patients undergoing esophagectomy for esophageal cancer  
R. Bagheri, M. T. Rajabi (Mashhad, Islamic Republic of Iran)
- P4330 The comparison of the findings of preoperative PET-CT and surgical pathology in patients with non-small cell lung cancer those with and without induction therapy  
A. Üçvet, S. Gürsoy, A. Erbaycu, S. OKaya, H. Koparal, Z. ADinc (Izmir, Turkey)
- P4331 A case of pulmonary sequestration behaves as cyst hydatid  
A. G. Akgül, M. Kanko, S. Topçu, A. Eliçora, S. T. Liman, S. S. Mehmetoglu, H. T. Sarisoy, S. Gümüstas (Kocaeli, Turkey)
- P4332 Abscessus pulmonum: Unexpected outcome of surgical treatment; a case presentation  
V. Mirošljević, A. Vukicević, L. Todorović, O. Ljuboja (Banja Luka, Doboj, Bosnia And Herzegovina)
- P4333 Giant mediastinal atypical carcinoid tumor  
R. Demirhan, H. Eryigit, A. Kosar, M. Tükel (Istanbul, Turkey)
- P4334 Robotic-assisted thymectomy by da Vinci II versus sternotomy in the surgical treatment of non thymomatous myasthenia gravis  
S. Renaud, M. Renaud, N. Santelmo, M. Fleury, J. De Seze, C. Tranchant, G. Massard (Strasbourg, France)

TUESDAY  
27

## TUESDAY SEPTEMBER 27

- P4335 Impact of neoadjuvant therapy on tumor resectability and survival of patients with locally advanced non-small cell lung cancer  
R. Pascual Cascon, S. Aso González, M. Muñoz Esquerre, J. I. Martínez Ballarin, S. Padrones Sancez, I. Macia Vidueira, F. Rivas Doyague, F. Cardenal Alemany, M. D. Arnaiz Fernandez, S. Morchon Ramos, J. Dorca Sargatal (Hospitalet de Llobregat, Barcelona, Spain)
- P4336 Surgical treatment of combination of tuberculosis and pulmonary echinococcosis  
S. Abulkasimov, T. Kariev, A. Irgashev (Tashkent, Uzbekistan)
- P4337 Pulmonary hydatid cyst: Analysis of 1024 cases  
R. Bagheri, S. Z. Haghi (Mashhad, Islamic Republic of Iran)
- P4338 Surgery of relapsed hydatid disease of lungs  
D. Maksumov, B. Amanov, R. Hayaliev (Tashkent, Uzbekistan)
- P4339 Transthoracic approach in adult Morgagni hernias: 30 years experience  
S. Sevinc, K. Can Ceylan, A. Ucvet, O. Usluer, S. Unsal, S. O. Kaya (Izmir, Turkey)

HALL 2-41

SESSION 433

12:50 - 14:40

**Thematic Poster Session: Influenza A (H1N1): lessons after the epidemic**

**Chairs: Y. Ivanov (Pleven, Bulgaria), F. Ringshausen (Hanover, Germany), R. Menendez (Valencia, Spain), S.L. Johnston (London, United Kingdom)**

- P4340 Delayed epidemic peak of pandemic influenza A (H1N1-2009) among hospital workers: The association between hand hygiene behavior and the consumption of disposable hand paper  
H. Wada, K. Honda, M. Nakamura, H. Goto, S. Kawai (Tokyo, Japan)
- P4341 Pneumonia and pandemic influenza virus A (H1N1/09). Immediate and remote results  
A. Krivonogov, I. Leshchenko, Z. Bobyleva (Ekaterinburg, Russian Federation)
- P4342 H1N1 influenza – A second wave? The experience from a large teaching hospital in the UK  
D. Parekh, J. Brebner, C. Dave (Birmingham, United Kingdom)
- P4343 Risk factors of fatal outcomes in influenza A/H1N1-09 viral infection  
N. Lareva, E. Luzina (Chita, Russian Federation)
- P4344 Early clinical abnormalities after H1N1 influenza pneumonia  
S. Romero-Diaz, R. J. Hernandez-Zenteno, F. Flores Trujillo, A. Amaya Bermudez, C. Espinosa de los Monteros, R. H. Sanores, A. Velazquez Montero, L. Torre Bouscoulet, A. Ramirez-Venegas (Mexico City, Mexico)
- P4345 RNA interference against influenza A (H1N1) virus  
Y. Li, C. Y. Ma, W. Liu, M. Y. Tian, S. Hua, N. Y. Jin (Changchun, China)
- P4346 Clinical features and outcomes of patients hospitalized with influenza A virus (H1N1) infection in a hospital of the south of Spain  
V. Nuñez-Rodríguez, M. A. Villena-Ruiz, A. Padilla-Galo, S. Soler-Mendez, L. Fernandez de Rota-Garcia, T. Perez-Romero, J. Olalla-Sierra, J. J. Cebrian-Gallardo, J. J. Garcia-Alegria (Marbella, Spain)
- P4347 The changing distribution pattern of H1N1 infection in adults in 2010-2011  
M. Harris, S. Shuttleworth, S. Ellis, C. Taylor, B. Marshall, A. A. Lwin (Southampton, United Kingdom)
- P4348 H1N1: The co-infection conundrum  
C. Taylor, S. Ellis, M. Harris, S. Shuttleworth, B. Marshall, A. A. Lwin (Southampton, United Kingdom)
- P4349 Platelets and influenza A (H1N1)  
E. Popa, F. Rusu-Cordunean (Iasi, Romania)
- P4350 General characteristics of pneumonia cases developed during H1N1 epidemic in Turkey and prognostic factors  
T. Ozlu, Y. Bulbul, S. Tasbakan, H. Kiliç, T. Kuyucu, T. Yildiz, T. Ozdemir, S. Duru, F. Oztuna, N. Adiguzel, L. Saglam, A. S. Coskun, T. Ornek, G. Gunduz, A. Filiz, L. Ozdemir, G. Okumus (Trabzon, Izmir, Ankara, Istanbul, Diyarbakir, Corum, Erzurum, Manisa, Zonguldak, Gaziantep, Hatay, Turkey)
- P4351 Prognostic factors of survival among adult patients admitted in the ICU due to severe H<sub>1</sub>N<sub>1</sub> pneumonia  
A. Boutou, G. Pitsiou, P. Kontou, K. Chatzika, F. Abatzidou, I. Stanopoulos, I. Kioumis (Thessaloniki, Greece)
- P4352 Radiologic manifestations of patients with H1N1 infection  
M. Bakhshayesh, B. Saidi, P. Tabarsi, S. Zahirifard (Tehran, Islamic Republic of Iran)
- P4353 The H1N1 influenza pandemic and pneumonia in Iceland 2009-2010: A one year follow up study  
H. Hardardottir, O. Einarsson, O. Gudlaugsson, K. Reynisson, S. O. Haraldsdottir (Reykjavik, Iceland)
- P4354 Pneumonia in H1N1 influenza infection  
J. Brebner, C. Dave, D. Parekh (Birmingham, United Kingdom)
- P4355 A study to analyse the clinical profile and outcome of hospitalised patients with H1N1 and the factors influencing the outcome  
T. J. Ponnuduthamkuzhy, B. R. Sandeep, P. V. Santhosh Kumar, C. Ravindran (Calicut, India)
- P4356 Biomarker profiles of BALF in ALI/ARDS due to pandemic (H1N1) 2009 influenza  
T. Horiuchi, T. Yokoyama, N. Kobayashi, Y. Wada, H. Yamamoto, K. Kubo (Matsumoto, Japan)
- P4357 Glutathione peroxidase-1 as a therapeutic target in influenza A virus-induced lung disease  
S. Yatmaz, H. J. Seow, R. Gualano, Z. X. Wong, P. Crack, S. Bozinovski, G. Anderson, R. Vlahos (Parkville, Australia)

- P4358 Long-term outcomes after viral pneumonia caused by influenza A (H1N1)  
S. Avdeev, N. Karchevskaya, A. Chuchalin, G. Nekludova, J. Naumenco (Moscow, Russian Federation)
- P4359 Observation of pregnant women (PW) after severe pneumonia (P) with influenza A/H1N1 virus infection in 2009-2010: Long-term results  
T. Pertseva, O. Cherkasova, I. Tyshchenko, T. Kireyeva, G. Marinokha, E. Tadzhiyeva (Dnipropetrovsk, Ukraine)

HALL 2-42

SESSION 434

12:50 - 14:40

**Thematic Poster Session: Challenges in tuberculosis control**

**Chairs:** L. Anderson (London, United Kingdom), W. Ricketts (London, United Kingdom), P. Ravn (Frederiksberg, Denmark)

- P4360 Latent tuberculosis in patients with rheumatoid arthritis. Evaluating cellular response and new diagnostic strategies  
D. Tannus-Silva, B. Silva, P. P. Torres, P. J. Junior, A. P. Junqueira-Kipnis, M. Rabahi (Goiania, Brazil)
- P4361 Use of econometric selection models to describe non-completion of treatment for latent tuberculosis infection (LTBI) among the Ethiopian and Somali immigrant populations  
K. Fluegge (Columbus, United States Of America)
- P4362 Home and work place evaluation in contact tracing  
R. Duarte, M. Neto, A. Carvalho, H. Barros (Vila Nova de Gaia, Porto, Portugal)
- P4363 Tuberculosis in prisons in Republic of Macedonia from 2005-2010  
M. Zakoska, S. Talevski (Skopje, Fyrom)
- P4364 Two major problems in TB patients today: MDR and the abandoned therapy  
G. Barbulescu, L. Badulescu (Bucharest, Romania)
- P4365 Profile of TB deaths in Romania during 2007-2009  
N. Cioran, E. Ibraim, H. Cocei (Bucharest, Romania)
- P4366 Results of retrospective study of TB contact investigations in Iasi County, Romania  
A. Sorete Arbore, V. Cojocariu, R. Sorete Arbore (Iasi, Romania)
- P4367 Tuberculosis in prison  
V. Andreev, A. Karcheva, K. Petrova, E. Lazarova (Pleven, Bulgaria)
- P4368 How did the tuberculosis patients reach to a tuberculosis dispensary and how long did it take?  
D. Karadogan, B. Abduloglu, G. Kiter (Denizli, Turkey)
- P4369 The pathology of a thorax at the men getting to the penal institutions  
K. I. Aksenova (Moscow, Russian Federation)
- P4370 Forecasting the risk of medicinal complications from the chemical therapy in patients with multi-resistant pulmonary tuberculosis  
F. Tashpulatova (Tashkent, Uzbekistan)
- P4371 XDR and MDR-TB genetic markers of M. tuberculosis strains circulating in Kyrgyz Republic  
J. Isakova, N. Sovhozova, B. Kabylova, A. Aldashev (Bishkek, Kyrgyzstan)
- P4372 To evaluate primary default among smear positive pulmonary tuberculosis patients at three chest clinics of Ojha Institute of Chest Diseases, Karachi, Pakistan  
N. Rao, T. Anwer, I. Arain, I. Ara (Karachi, Hyderabad, Pakistan)
- P4373 Clinical and genotypic pattern of multidrug resistant tuberculosis isolated from extrapulmonary tuberculosis cases in tertiary care hospitals in northern India  
A. K. Maurya, S. Kant, V. L. Nag, R. A. S. Kushwaha, T. N. Dhole (Lucknow, India)
- P4374 Study of cross referrals between ICTC & RNTCP centres in GSVM Medical College Kanpur  
P. K. Gupta, S. Chaudhri, P. K. Singh (Kanpur, India)
- P4375 Factors responsible for relapse under revised national tuberculosis control programme (RNTCP)  
R. Meena, N. Jain, M. Sharma, R. Aurangabadwalla, N. Jain (Jaipur, India)
- P4376 Private physicians participation on public-private mix-DOTS at St. Paul's Hospital Iloilo  
S. M. Checa-Jalandra, M. Ferrer (Iloilo City, Iloilo, Philippines)
- P4377 Who are at risk for tuberculosis recurrence?  
A. Nodieva, G. Skenders, I. Jansone, M. Bauskenieks, I. Pole, L. Broka, I. Morozova, V. Baumanis, V. Leimane (Riga, Latvia)
- P4378 Management and follow up of non-tuberculosis mycobacteria pulmonary infection in 55 infected cases in Iran  
P. Baghaei Shiva, P. Tabarsi, M. Marjani, M. R. Masjedi (Tehran, Islamic Republic of Iran)
- P4379 Increasing frequency of pulmonary nontuberculous mycobacteria (pNTM), and accumulation of the patients, observed in a city hospital in Tokyo  
K. Morimoto, T. Yoshiyama, H. Ogata, A. Kurashima, S. Kudoh, K. Iwai (Kiyose-shi, Japan)

HALL 2-43

SESSION 435

12:50 - 14:40

**Thematic Poster Session: Novel strategies for the diagnosis of tuberculosis**

**Chairs:** J. Keane (Dublin, Ireland), S. Winkler (Vienna, Austria)

- P4380 Late-breaking abstract: Expression of IFN-g/IL-10 in active pulmonary tuberculosis patients and household contacts  
S. Gaddam, L. Joshi, H. S. P. Vanacherla, A. Bandaru, V. Valluri (Hyderabad, India)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P4381 Analysis of C-reactive protein and fibrinogen as possible predictors of secondary fibrosis in pulmonary tuberculosis  
B. Prnjavorac, A. Caušević, S. Semiz, T. Dujic, T. Bego, N. Irejiz, R. Sejdinovic (Tešanj, Sarajevo, Bosnia And Herzegovina)
- P4382 Decreasing level of serum ADA: A valuable predictor of treatment in smear positive tuberculosis  
K. Navari, T. Eqbal Eftekhaari, N. Ziaee, F. Navari (Bandar Abbas, Islamic Republic of Iran)
- P4383 Adenosine deaminase, an useful tool for the diagnosis of tuberculous pleuritis in France  
H. Le Floch, S. Duron, H. Delacour, F. Rivière, I. Ngampolo, F. Vaylet, J. Margery, C. Rapp (Clamart, Saint Mandé, France)
- P4384 Clinical utility of a lateral flow serologic test in the rapid diagnosis of pulmonary TB in a public-private mix for DOTS setting in Iloilo City, Philippines  
D. Dumaplin, M. Ferrer, E. M. Divinagracia, L. Sirilan, R. Cabana, R. Guzman-Trivilegio, A. L. Ponje, E. Solis, P. Bretan, J. Adamich (Iloilo City, Philippines)
- P4385 Prognostic values of serum IP-10 and IL-17 in patients with pulmonary tuberculosis  
Y. C. Chen, M. C. Lin, C. J. Chen, C. H. Chin, S. F. Liu, C. C. Wu, C. C. Tsen, Y. H. Wang, T. Y. Chao, C. H. Lie, C. C. Wang (Kaohsiung, Taiwan; Xiamen, China)
- P4386 IP-10 is an additional marker to evaluate the RD1-specific responses in HIV-infected subjects  
V. Vanini, T. Chiacchio, C. Gioia, G. Cuzzi, N. Orchi, A. Rianda, L. Alba, M. L. Giancola, A. Conte, E. Petruccioli, L. Petrone, E. Girardi, D. Goletti (Rome, Italy)
- P4387 Evaluation of platelet count and indices in pulmonary tuberculosis and pneumonia  
F. Sahin, E. Yazar, P. Yildiz (Istanbul, Turkey)
- P4388 Urinary neopterin levels discriminate active from latent mycobacterium tuberculosis infection  
M. Eisenhut, D. Hargreaves, A. Scott, D. Housley, A. Walters, R. Mulla, P. Kanthapillai, J. Ramsay, O. Eikenberg, R. Edelmann (Luton, London, United Kingdom; Hamburg, Germany)
- P4389 Delays in the diagnosis and treatment of tuberculosis in a south London hospital: The role of chest X-rays  
E. Karampini, D. S. Rao, S. Islam, L. Dawson, B. Asuquo, T. C. Stokes (London, United Kingdom)
- P4390 The role of bronchoalveolar lavage in suspected pulmonary tuberculosis with negative sputum  
C. Lares dos Santos, J. Moura e Sá, R. Duarte (Coimbra, Vila Nova de Gaia, Portugal)
- P4391 Diagnostic accuracy of sputum induction test compared with bronchoscopic results in patients with pulmonary tuberculosis  
Y. Kim, D. Jeon, K. Lee, K. Kim, H. Park, M. Lee, S. Park (Yongsan, Republic of Korea)
- P4392 Use of fiberoptic bronchoscopy in early diagnosis of sputum smear-negative pulmonary tuberculosis  
H. Y. Kwan, S. Lau, K. L. Choo, W. K. Lam, C. M. Wong, C. W. Yu, T. L. Wong, W. Y. Chu, K. K. Wong (The New Territories, Pokfulam, Hong Kong)
- P4393 Rapid molecular detection of rifampicin and isoniazid resistance and identification of mutations in resistant genes of multi-drug resistant tuberculosis (MDR-TB) patients  
G. Ari, C. Bicmen, O. Karaman, M. S. Dereli, S. Aktogu Ozkan (Izmir, Turkey)
- P4394 Real time polymerase chain reaction (RT-PCR) based rapid detection of multi-drug resistant (MDR) mycobacterium tuberculosis (MTB)  
T. K. Jayalakshmi, M. Rathore, G. Pai, D. Joshi (Mumbai, Navi Mumbai, Kamothe, India)
- P4395 Effectiveness of TB diagnostics with microbiological methods in TB service and general health care institutions  
R. Larisa, P. Victor, G. Vladislav (Moscow, Russian Federation)
- P4396 Laboratory diagnostics of pulmonary mycobacteriosis  
L. Surkova, A. Zalutskaya, E. Sahalchyk (Minsk, Belarus)
- P4397 Diagnostic culture confirmation and bacteriological evidence of cure in English adult TB cases: Can we do better?  
A. Leahy, M. Hetzel, O. Kon, M. Lipman, I. Abubakar (Bristol, London, United Kingdom)

HALL 2-44

SESSION 436

12:50 - 14:40

**Thematic Poster Session: Treatment of tuberculosis and adverse drug reactions**

**Chairs:** A. Skrahina (Minsk Region, Belarus), M. De Souza Galvao (Barcelona, Spain), A. Bossink (Den Dolder, The Netherlands), A. Andersen (Odense, Denmark)

- P4398 Efficacy and safety of linezolid for the treatment of multidrug resistant tuberculosis (MDR-TB) and disease by non tuberculous mycobacteria (NTM)  
M. Ralli, L. Stournara, E. G. Tsaroucha, M. Palavra, S. Karagiannis, V. Sgountzos, A. Papavassiliou (Athens, Greece)
- P4399 Safety, tolerability and efficacy of linezolid for the treatment of M/XDR-TB: A systematic review and meta-analysis  
G. Sotgiu, H. Anger, R. Centis, L. D'Ambrsoio, S. De Lorenzo, C. Lange, G. F. Schecter, T. S. Shim, A. Skrahina, M. Villar, E. Zampogna, J. P. Zellweger, G. B. Migliori (Sassari, Tradate, Sondalo, Italy; New York, Richmond, United States Of America; Borstel, Germany; Seoul, Republic of Korea; Minsk, Belarus; Amadora, Portugal; Lausanne, Switzerland)
- P4400 Linezolid in the treatment of multi- and extensively drug-resistance tuberculosis  
S. Borisov, T. Ivanushkina, N. Litvinova, Y. Garmash (Moscow, Russian Federation)
- P4401 Linezolid in complex treatment of XDR-TB patients  
I. Vasilyeva, A. Samoilova, T. Bagdasaryan, A. Ergeshov (Moscow, Russian Federation)

- P4402 Adverse events in the treatment of multidrug-resistant tuberculosis  
S. Qayyum, I. Ahmed, S. Baig, N. Rizvi (Karachi, Pakistan)
- P4403 Risk factors for adverse effects of antituberculous treatment and association with treatment outcome  
C. G. M. Erkens, D. Mulder, R. van Altena, W. C. M. de Lange, R. van Hest, P. J. H. J. van Gerven (The Hague, Haren, Rotterdam, The Netherlands)
- P4404 Adverse events during treatment for latent tuberculosis infection  
C. C. Dobler, G. B. Marks (Sydney, Australia)
- P4405 Severe adverse effects of antitubercular drugs and patient management  
J. Ben Amar, B. Dhari, L. El Gharbi, M. A. Baccar, S. Azzabi, H. Aouina, H. Bouacha (Tunis, Tunisia)
- P4406 Individualized treatment regimens with second line anti-TB drugs (SLD) compared to first line anti-TB drug (FLD) only in new pulmonary TB patients, culture confirmed with full sensibility at drug sensibility test (DST)  
D. Chiotan, C. Didilescu, N. Galie, R. Posea, C. Marica (Bucharest, Romania)
- P4407 Monitoring of antituberculous drugs adverse events during the treatment of multidrug-resistant pulmonary tuberculosis  
M. Dziusmikeyeva, A. Zalutskaya, A. Skrahin, A. Prasmzyki, V. Solodovnikova, A. Skrahina (Minsk, Belarus)
- P4408 Incidence and timing of hepatotoxicity due to anti-tuberculous treatment  
A. Shrestha, P. Whitaker, R. Mozdiak, R. Ahmed, M. Arif, T. Capstick, J. Watson (Leeds, United Kingdom)
- P4409 Antituberculosis fixed multi-dose combination and single drug therapy in active tuberculosis: What is the benefit?  
A. Kotti, H. Daghfous, W. Bouhawel, O. Kahloul, F. Tritar, F. Tritar (Ariana, Tunisia)
- P4410 Allergic reactions to rifampicin in tuberculosis treatment  
F. Chermiti Ben Abdallah, I. Zayani, A. Chtourou, S. Taktak, R. Mahouachi, A. Ben Kheder (Ariana, Tunisia)
- P4411 Incidence of peripheral neuropathy during daily TB chemotherapy: Indian experience  
T. Sahasrabudhe, V. Oswal (Pune, India)
- P4412 Ethambutol induced bullous and lichenoid skin eruptions  
I. Akrouf, E. Tangour, S. Fenniche, H. Hassene, L. Feki, D. Greb, H. Zaibi, M. L. Megdiche (Ariana, Tunisia)
- P4413 Research on in vitro release kinetics of isoniazid (IZN) and omeprazole from oral tablets  
M. Costin, B. Cioroiu, E. Butnaru (Iasi, Romania)
- P4414 Influence of inhaled bronchodilator therapy on bacterioexcretion and LQ in patients with pulmonary TB infection with concomitant broncho-obstructive syndrome  
G. Kuklina, E. Shmelev (Moscow, Russian Federation)
- P4415 In vitro susceptibility of *M. avium* against protonamide  
T. Weiss, T. Sabha, J. Kollmeier, T. Blum, H. Mauch, H. Rüssmann, N. Schönfeld, T. T. Bauer (Berlin, Germany)
- P4416 Susceptibility of *mycobacterium avium* complex and *mycobacterium xenopi* to rifampin, rifapentine, clarithromycin and moxifloxacin, alone or in combination with ethambutol  
C. Andrejak, D. Almeida, E. Nuermberger, J. Grosset (Baltimore, United States Of America)
- P4417 In vitro susceptibility of *mycobacterium bovis* against moxifloxacin  
T. Weiss, T. Blum, J. Kollmeier, H. Mauch, H. Rüssmann, N. Schönfeld, T. T. Bauer (Berlin, Germany)

HALL 2-45

SESSION 437

12:50 - 14:40

**Thematic Poster Session: Quality management for lung cancer patients**

**Chairs:** R. Milroy (Glasgow, United Kingdom), E. Jakobsen (Odense, Denmark), D. Jovanovic (Beograd, Republic of Serbia)

- P4418 The National Lung Cancer Audit – Year 5 completeness and outcomes and case-mix adjustment  
P. Beckett, R. Stanley, I. Woolhouse, L. Tata, M. Peake (London, Leeds, Nottingham, United Kingdom)
- P4419 Improvement of the survival of lung cancer in a French monocentric cohort between 1990 and 2010  
F. Vaylet, J. Margery, H. Le Floch, F. Riviere, A. Mairivitz, I. N'Gampolo, W. Gaspard, J. P. Arigon, F. Pons, R. Jancovici, C. Marotel, P. L'Her (Clamart, France)
- P4420 Survival outcomes of non small cell lung cancer (NSCLC) patients who are suitable for radical treatment at initial presentation  
M. A. Khalil, J. Barclay (Oldham, Greater Manchester, United Kingdom)
- P4421 Survival outcomes in advance non-small cell lung cancer – A developing country scenario  
R. Guleria, A. Mohan, S. Kumar, A. Ali, A. Kumar (Delhi, India)
- P4422 The role of chemotherapy re-challenge in non small cell lung cancer. A retrospective study in a tertiary general hospital and thoracic center  
A. S. Strimpakos, E. Patsourou, D. Pouli, C. Fevranoglou, I. Giosos, A. Charpidou, K. N. Syrigos (Athens, Greece)
- P4423 Curative treatment vs. best supportive care in advanced non small cell lung cancer in aged person  
J. Lee, J. Chang, J. Kim, Y. Ryu, S. Kim (Seoul, Republic of Korea)
- P4424 Assessment of German national lung cancer guideline quality indicators in routine practice – Does the new TNM-system make a difference?  
T. Blum, J. Kollmeier, N. Schönfeld, W. Ammenwerth, S. Delis, W. Grüning, W. Nehls, T. T. Bauer (Berlin, Germany)
- P4425 Outcome of patients discharged from rapid access lung clinic (RALC) with non cancer diagnosis: Five year follow up  
A. Wight, R. Sarkar, L. Creech, R. Stead, M. Babores (Macclesfield, United Kingdom)

TUESDAY  
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## TUESDAY SEPTEMBER 27

- P4426 Reducing unscheduled attendances at hospital due to lung cancer via a rapid access flexible clinic  
H. Morgan, L. Hodgson, R. Lee, S. Doffman (Brighton, United Kingdom)
- P4427 Fast track lung cancer service in a tertiary care centre  
R. Naseer, M. E. J. Callister, P. K. Plant (Leeds, United Kingdom)
- P4428 Rapid access lung cancer clinic – A patient satisfaction survey  
R. Mustafa, S. Naik, J. Mills, M. Munavvar (Preston, United Kingdom)
- P4429 How do patient and hospital features influence outcomes in small cell lung cancer in England?  
A. Rich, L. Tata, C. Free, R. Stanley, M. Peake, D. Baldwin, R. Hubbard (Nottingham, Leicester, Leeds, United Kingdom)
- P4430 A retrospective analysis of patient presentation to primary and secondary care prior to subsequent late stage lung cancer diagnosis  
A. Shah, S. Teoh, B. Mann (London, United Kingdom)
- P4431 General practitioner (GP) communication with potential lung cancer patients; review of practices prior to onward secondary care referral  
S. Selvaraj, K. Garbett, J. McAdam, K. Srinivasan, H. Moudgil (Telford, Keele, United Kingdom)
- P4432 Does raising awareness of lung cancer symptoms in primary care alter referral patterns?  
R. Astin, E. Paddison, A. Woolf, N. Soobadoo, D. Powrie (Southend, United Kingdom)
- P4433 Outcome of lung cancer alerts in chest X-rays  
R. Sarkar, M. Jafary, J. Samanuru, N. O'Reilly, A. de Ramón Casado (Warrington, United Kingdom)
- P4434 A repeat audit of computed tomography scanning prior to fiberoptic bronchoscopy in the diagnosis of lung cancer  
J. Seymour, T. Ho (Frimley, United Kingdom)
- P4435 Validation of existing clinical prediction models for patients with solitary pulmonary nodules (SPN) managed by a lung multi-disciplinary team (MDT)  
P. Malhotra, N. Lovell, P. Plant, S. Karthik, A. Scarsbrook, M. Callister (Leeds, United Kingdom)
- P4436 The value of immunohistochemical markers in the differential diagnosis of adenocarcinomas  
A. Eylen, A. Karalezli, O. Kandemir, G. Aykun, H. Hasanoglu (Ankara, Turkey)
- P4437 NeuroStation – Statistical software based on artificial intelligence and pattern recognition for NSCLC development prediction through comprehensive biomarker analysis  
N. Minic, S. Zunic, S. Zunic (Belgrade, Republic of Serbia)

## ELICIUM 2

## SESSION 438

13:00 - 14:15

**Lunchtime session: Pulmonologists and intensivists: two hearts are better than one?****Aims:** The aims of this symposium are to:

- understand the role of the pulmonologist in critical care;
- highlight the differences between Europe and North America;
- assess the educational programme to be eventually developed.

**Target audience:** Pulmonologists, intensivists, nurses, emergency doctors and respiratory therapists.**Chairs:** A. Artigas (Sabadell, Spain), M. W. Elliott (Leeds, United Kingdom)

- 13:00 Which kind of acute patients can pulmonology safely treat?  
A. Torres (Barcelona, Spain) 4438
- 13:25 Are the European pulmonologists ready for the prime time?  
T. Vassilakopoulos (Athens, Greece) 4439
- 13:50 Linking pulmonary and critical care medicine: the US model  
N. Hill (Providence, United States of America) 4440

## ELICIUM 1

## SESSION 439

13:00 - 14:15

**Lunchtime session: Pro/Con debate "Maintenance chemotherapy after induction chemotherapy for advanced nonsmall cell lung cancer"**

**Aims:** Maintenance is a topic of controversy in the first-line management of advanced nonsmall cell lung cancer. Some drugs have obtained a specific registration for that purpose. A lot of questions merit discussion. What is the exact definition of maintenance (versus consolidation versus early second-line treatment)? What should be the induction chemotherapy? Which drug (cytotoxic agent or tyrosine kinase inhibitor) should be used? How long should be the duration of maintenance? The session will try, by a pro/con debate, to clarify the role of maintenance.

**Target audience:** All clinicians who are involved in the therapeutic management of patients with advanced nonsmall cell lung cancer, particularly after successful induction chemotherapy.**Chairs:** N. Schoenfeld (Berlin, Germany), K. Zarogoulidis (Thessaloniki, Greece)

- 13:00 PRO: maintenance chemotherapy after induction chemotherapy for advanced nonsmall cell lung cancer  
T. Brodowicz (Vienna, Austria) 4441
- 13:25 CON: maintenance chemotherapy after induction chemotherapy for advanced nonsmall cell lung cancer  
B. Grigoriu (Iasi, Romania) 4442
- 13:50 Rebuttal  
T. Brodowicz (Vienna, Austria), B. Grigoriu (Iasi, Romania) 4443



EMERALD		SESSION 440	13:00 - 14:30
<b>ERS General Assembly and Council</b>			
ROOM G102-103		SESSION 441	13:00 - 14:00
<b>Meet the Professor: Pre-operative pulmonary assessment</b>			
4444	C. Bolliger (Cape Town, South Africa)		
ROOM G104-105		SESSION 442	13:00 - 14:00
<b>Meet the Professor: All that wheezes is not asthma</b>			
4445	K. Guntupalli (Houston, United States of America)		
ROOM E103		SESSION 443	13:00 - 14:00
<b>Meet the Professor: Adenosine receptors and asthma</b>			
4446	C. Page (London, United Kingdom)		
ROOM G109		SESSION 444	13:00 - 14:00
<b>Meet the Professor: Long-term weaning: nursing challenges</b>			
4447	D. Field (London, United Kingdom)		
ROOM G110		SESSION 445	13:00 - 14:00
<b>Meet the Professor: Cardiovascular disease in asthma and COPD</b>			
4448	M. Cazzola (Rome, Italy)		
ROOM G111		SESSION 446	13:00 - 14:00
<b>Meet the Professor: Regulation of immune tolerance in the lung</b>			
4449	C. Hawrylowicz (London, United Kingdom)		
ROOM 4.2		SESSION 448	13:15 - 14:30
<b>Practical Workshop: Bronchial Thermoplasty: addressing the unmet need in severe asthma</b>			
<i>Organised by Boston Scientific</i>			
<b>Chair: P. Shah (London, United Kingdom)</b>			
13:15	Demonstrated long-term effect on asthma control		
	G. Cox (Hamilton, Canada)		4453
13:30	Proven long-term safety profile		
	R. Niven (Manchester, United Kingdom)		4454
13:45	Hands-on: Bronchial Thermoplasty in practice		
	D.J. Slebos (Groningen, The Netherlands)		4455
ROOM E107		SESSION 449	13:15 - 14:30
<b>Practical Workshop: Flexible and Rigid Bronchoscopy in Adults</b>			
<i>Organised by KARL STORZ</i>			
13:15	Small introduction in the field of bronchoscopy with a presentation and demonstration		
	H. Tonn (Hannover, Germany)		4456
13:30	Hands-on workshop with instruments and Phantoms		
	H. Tonn (Hannover, Germany)		4457
ROOMS F002+F003		SESSION 450	13:15 - 14:30
<b>Practical Workshop: NIV for acute respiratory failure: are sophisticated ventilators really needed?</b>			
<i>Organised by SIARE ENGINEERING INTERNATIONAL GROUP srl</i>			
<b>Aims:</b> To illustrate the state-of-the-art of noninvasive ventilation (NIV) therapy in acute respiratory failure and to describe the practical application of the device.			
<b>Target audience:</b> Pulmonologists, intensivists, emergency doctors, nurses, respiratory therapists and technicians.			
13:15	Introduction		
	S. Nava (Bologna, Italy)		4458
13:17	Educational presentation: NIV for acute respiratory failure: are sophisticated ventilators really needed?		
	S. Nava (Bologna, Italy)		4459

## TUESDAY SEPTEMBER 27

- |       |  |      |
|-------|--|------|
| 13:35 | Company presentation: case reports - a ventilated patient with the new Falco 202<br>R. Lambertini (Bologna, Italy), C. Preziosa (Bologna, Italy) | 4460 |
| 13:45 | Practical demonstration<br>R. Lambertini (Bologna, Italy)  | 4461 |

## ROOM 7.1

## SESSION 453

14:45 - 15:05

**Ceremony for Pulmonary Arterial Hypertension Award (supported by Actelion)**

- |       |   |      |
|-------|---|------|
| 14:45 | Introduction of the Pulmonary Arterial Hypertension Awardee<br>A. Peacock (Glasgow, United Kingdom) | 4462 |
| 14:50 | 2011 Pulmonary Arterial Hypertension Award<br>G. Simonneau (Clamart, France)                        | 4463 |

## FOLLOWED BY

15:05 - 16:45

**Grand Round: "Pulmonary Hypertension in the Clinic Grand Round - an interactive session"**

**Aims:** The aim of this session is to provide a better insight into the differential diagnosis of pulmonary hypertension.  
**Target audience:** Pulmonologists, radiologists, pathologists and nurses involved in the clinical care of pulmonary hypertension patients.

**Chairs:** A. Peacock (Glasgow, United Kingdom), G. Simonneau (Clamart, France)

- |       |   |      |
|-------|---|------|
| 15:05 | An elderly women with oedema and increasing dyspnoea<br>M. M. Hoeper (Hannover, Germany)  | 4464 |
| 15:30 | A rare form of pulmonary hypertension or a rare presentation of a common disease?<br>A. Boonstra (Amsterdam, The Netherlands)           | 4465 |
| 15:55 | Chronic thromboembolic pulmonary hypertension (CTEPH) and beyond<br>J. Pepke-Zaba (Cambridge, United Kingdom)                           | 4466 |
| 16:20 | A 25-year-old woman with precapillary pulmonary hypertension and acute response to inhaled nitric oxide<br>D. Montani (Clamart, France) | 4467 |

CLINICAL

## AUDITORIUM

## SESSION 454

14:45 - 16:45

**Symposium: New ERS Guidelines "Management of Work-Related Asthma"**

**Aims:** In this session, the ERS Guidelines "Management of Work-Related Asthma" will be presented. The aims of this symposium are to update knowledge and significantly improve practice in diagnostics, risk assessment, preventive strategies and treatment of occupational asthma. Evidence-based statements and recommendations related to five key questions will be presented.  
**Target audience:** Clinicians, occupational physicians and public health practitioners.

**Chairs:** X. Baur (Hamburg, Germany), T. Aasen (Bergen, Norway)

- |       |   |      |
|-------|---|------|
| 14:45 | What are the risk factors for a bad outcome of work-related asthma?<br>P. Maestrelli (Padova, Italy)  | 4468 |
| 15:15 | How effective is controlling work-related exposures to prevent occupational asthma?<br>D. Heederik (Utrecht, The Netherlands)                     | 4469 |
| 15:45 | What is the yield and benefit of medical screening and medical surveillance of endangered workers?<br>J. Rooijackers (Beuningen, The Netherlands) | 4470 |
| 16:15 | What is the outcome of different management options?<br>O. Vandenplas (Godinne, Belgium)  | 4471 |

EPIDEMIOLOGY/  
ENVIRONMENT

## ROOM 7.2

## SESSION 455

14:45 - 16:45

**Symposium: Non-tuberculous mycobacterial infections**

**Aims:** At the end of the symposium, attendees should be familiar with the clinical spectrum of nontuberculous mycobacterial (NTM) infections, special vulnerable populations, the diagnostic standards and the up-to-date therapeutic options.  
**Target audience:** Clinicians, clinical scientists, immunologists, microbiologists, specialist nurses and public health specialists involved in tuberculosis control, surveillance, care and research.

**Chairs:** T. Aksamit (Rochester, United States of America), H. Milburn (London, United Kingdom)

- |       |   |      |
|-------|---|------|
| 14:45 | Non-tuberculous mycobacteria in the environment and as human pathogens<br>U. Greinert (Borstel, Germany)  | 4472 |
| 15:15 | Susceptibility to non-tuberculous mycobacteria infections<br>A. Nieters (Freiburg, Germany)               | 4473 |
| 15:45 | Clinical spectrum of non-tuberculous mycobacterial infections<br>J. Van Ingen (Nijmegen, The Netherlands) | 4474 |
| 16:15 | Treatment of non-tuberculous mycobacteria infections<br>D. Griffith (Tyler, United States of America)     | 4475 |

EPIDEMIOLOGY/  
ENVIRONMENT/  
INFECTION

## PHYSIOLOGY

## ELICIUM 2

## SESSION 456

14:45 - 16:45

**Symposium: Exercise strategies for chronic respiratory disease**

Aims: The aims of this session are to:

- understand the changes that occur within the peripheral muscle with increasing age and chronic respiratory disease;
- understand the basis for resistance exercise and what options are available to assess strength.

Target audience: Clinicians, physiologists, allied health professionals and nurses.

Chairs: T. Troosters (Leuven, Belgium), M. Morgan (Leicester, United Kingdom)

- |       |   |      |
|-------|---|------|
| 14:45 | Effect of ageing on the peripheral muscle and the impact on strength<br>P. Aagaard (Odense, Denmark)    | 4476 |
| 15:15 | Rationale for endurance training: is the interval training the answer?<br>I. Vogiatzis (Athens, Greece) | 4477 |
| 15:45 | Voluntary and involuntary strength training regimes<br>M. Sillen (Horn, The Netherlands)                | 4478 |
| 16:15 | Maintaining strength on the intensive therapy unit<br>N. Hart (London, United Kingdom)                  | 4479 |

INTENSIVE CARE/  
BASIC

## ROOM 5.1

## SESSION 457

14:45 - 16:45

**Symposium: Molecular biomarkers at the bedside of critically ill patients**

Aims: The aims of this symposium are to:

- review studies of biomarkers with regard to its diagnosis and prognosis;
- discuss the attributes and pathogenetic relevance of molecular biomarkers needed to be clinical tools to assess the presence and activity of lung injury;
- review data on the potential use of pharmacogenomics in predicting susceptibility and prognosis and in determining treatment options in sepsis.

Target audience: Pulmonologists, intensivists, immunologists, basic scientists, clinicians, microbiologists and immunologists.

Chairs: T. Welte (Hannover, Germany), S. Orfanos (Haidari, Greece)

- |       |   |      |
|-------|---|------|
| 14:45 | Biomarker profiles in acute lung injury and acute respiratory distress syndrome<br>J. Pugin (Geneva, Switzerland)         | 4480 |
| 15:15 | Biomarkers of early diagnosis and therapeutic response in ventilator-associated pneumonia<br>A. Torres (Barcelona, Spain) | 4481 |
| 15:45 | Are biomarkers helpful in sepsis for risk assessment or clinical trials?<br>A. Artigas (Sabadell, Spain)                  | 4482 |
| 16:15 | Genetic susceptibility to sepsis and acute lung injury<br>J.-D. Chiche (Paris, France)                                    | 4483 |

## CLINICAL/BASIC

## ROOM 4.1

## SESSION 458

14:45 - 16:45

**Hot Topic: Mucus in airway diseases: bad or good partner?**

Aims: To discuss the origin of mucus in health and diseases, the failure of mucus clearance and the potential for new therapies aiming to reduce mucus formation or accelerate mucus clearance.

Target audience: Clinicians (physicians, nurses, physiotherapists) and scientists dealing with airway diseases.

Chairs: P. Chanez (Marseille, France), K. Kostikas (Karditsa, Greece)

- |       |   |      |
|-------|---|------|
| 14:45 | Hyperplasia of mucin-secreting epithelial cells: a remodelling feature of airway diseases<br>A. Bourdin (Montpellier, France) | 4484 |
| 15:15 | Mucus properties and composition in airway diseases<br>B. Rubin (Va Richmond, United States of America)                       | 4485 |
| 15:45 | Does mucus protect or lead to epithelial colonisation and infection?<br>P. Hiemstra (Leiden, The Netherlands)                 | 4486 |
| 16:15 | Targeting mucus as a new therapeutic avenue?<br>P. Burgel (Paris, France)   | 4487 |

## PAEDIATRIC

## ELICIUM 1

## SESSION 459

14:45 - 16:45

**Symposium: From chronic lung diseases in childhood to COPD**

Aims: This symposium will give an overview on:

- lung development and the influence of premature birth on it;
- chronic lung disease (CLD) of prematurity;
- long-term respiratory effects.

This symposium also will try to answer the question of whether CLD is the new COPD.

Target audience: Paediatricians, paediatric pulmonologists, neonatologists, fellows, nurses and respiratory physicians.

Chairs: L. Zimmermann (Maastricht, The Netherlands), K. Bohlin (Alvsjö, Sweden)

- |       |  |      |
|-------|--|------|
| 14:45 | Normal lung development and its arrest after premature birth<br>A. Hislop (London, United Kingdom) | 4488 |
|-------|--|------|

TUESDAY  
27

## TUESDAY SEPTEMBER 27

15:15	Chronic lung disease of prematurity: an overview A. Jobe (Cincinnati, United States of America)	4489
15:45	Consequences of chronic lung diseases for young adults E. Vrijlandt (Groningen, The Netherlands)	4490
16:15	Chronic lung diseases and prematurity as risk factors for chronic obstructive pulmonary disease O. Eickelberg (Munich, Germany)	4491

## FORUM

## SESSION 460

14:45 - 16:45

**Oral Presentation: Late-Breaking Abstracts Session: New treatments and targets for airway disease****Chairs: I. M. Adcock (London, United Kingdom), G. Caramori (Ferrara, Italy)**

14:45	Late-breaking abstract: Inhaled pan-selectin antagonist bimosiamose in COPD: A double-blind, randomized, placebo-controlled phase II study H. Watz, D. Bock, M. Meyer, K. Schierhorn, K. Vollhardt, C. Woischwill, F. Pedersen, A. Kirsten, K. M. Beeh, W. Meyer-Sabellek, H. Magnussen, J. Beier (Grosshansdorf, Henningsdorf, Wiesbaden, Germany)	4492
15:00	Late-breaking abstract: Local and systemic distribution of the GATA-3-specific DNzyme hgd40 after inhalative exposure A. Turowska, N. Baumgartl, J. Kuhlmann, H. Garn (Marburg, Germany)	4493
15:15	Late-breaking abstract: Pre-clinical characterization of RP3128, a novel and potent CRAC channel inhibitor for the treatment of respiratory disorders K. Routhu, M. Muthuppalaniappan, G. Merikapudi, K. Varanasi, S. Veeraraghavan, S. Viswanadha, S. Vakkalanka (Hyderabad, India)	4494
15:30	Late-breaking abstract: Pre-clinical efficacy of RP5090 in PI3K $\delta$ mediated airway disorders K. Routhu, K. Varanasi, S. Veeraraghavan, M. Muthuppalaniappan, G. Babu, S. Viswanadha, S. Vakkalanka (Hyderabad, India)	4495
15:45	Late-breaking abstract: The effects of roxithromycin as anti-inflammatory agent on clinical outcomes in patient with bronchiectasis: A double blinded randomized controlled study S. Juthong, S. Eiamsa-ard (HatYai, Thailand)	4496
16:00	Late-breaking abstract: Once-daily NVA237 improves exercise endurance from first dose in patients with COPD: The GLOW3 trial K. M. Beeh, A. Drollman, L. Di Scala, R. Smith (Wiesbaden, Germany; Basel, Switzerland; Horsham, United Kingdom)	4497
16:15	Late-breaking abstract: Preclinical evaluation of an inhibitor of cytosolic phospholipase A $_2\alpha$ for the treatment of asthma C. Hewson, S. Patel, L. Calzetta, H. Campwala, S. Havard, E. Luscombe, P. Clarke, P. Peachell, M. Matera, M. Cazzola, C. Page, W. Abraham, C. Williams, J. Clark, N. Clarke, M. Yeadon (Sandwich, Sheffield, London, United Kingdom; Rome, Naples, Italy; Miami Beach, Cambridge, United States of America)	4498
16:30	Late-breaking abstract: Inhaled calcium salts reduce tobacco smoke induced airway inflammation and improve lung pathology J. Kenyon, P. Woodman, D. Spicer, P. Wright, V. Russell, R. Clarke, D. Hava (Lexington, United States of America; Slough, United Kingdom)	4499

## ROOM 5.2

## SESSION 461

14:45 - 16:45

**Oral Presentation: Innovative diagnostic methods for lung cancer****Chairs: A. Fisseler-Eckhoff (Wiesbaden, Germany), A. Scherpereel (Lille, France)**

14:45	Late-breaking abstract: Serum concentrations of new factors (IL-20, galectin 3, IL-29 and IL-33) involved in angiogenesis in patients with advanced non-small cell lung cancer (NSCLC) W. Naumnik, M. Ossolinska, K. Niewiarowska, E. Chyczewska (Bialystok, Poland)	4500
15:00	Diagnostic accuracy of SELDI-TOF-MS (surface enhanced laser desorption ionization time of flight mass spectrometry) method in early diagnosis of lung cancer C. Simsek, O. Sönmez, A. Yurdakul, F. Özmen, N. Zengin, A. Keyf, D. Kubilay, O. Gülbahar, S. Karatayli, M. Bozdayi, C. Öztürk (Ankara, Turkey)	4501
15:15	Bioconductance as adjunctive technique for evaluation of patients with lung masses detected by chest CT K. Callahan, R. Yung, M. Y. Zeng, M. Garff (Salt Lake City, Baltimore, United States of America)	4502
15:30	Amorphous components of the extracellular matrix have impact as new biochemical markers on malignancy characterization and prognosis of non-small cell lung cancer M. Peres Rangel, V. Karen de Sá, J. R. Maciel Martins, E. R. Parra, A. Mendes, D. Carrasco, E. Olivieri, V. L. Capelozzi (São Paulo, Brazil)	4503
15:45	Interferon (-alpha, -beta, and -omega) receptor 2 (IFNAR2) is a prognostic biomarker for lung cancer N. Ishikawa, N. Hattori, S. Tanaka, Y. Horimasu, A. Yokoyama, N. Kohno (Hiroshima, Nankoku, Japan)	4504

- 16:00 SHOX2 DNA methylation is a promising biomarker for the diagnosis of lung cancer in plasma  
B. Schmidt, C. Kneip, A. Seegebarth, M. Fleischhacker, V. Liebenberg, D. Dietrich (Halle, Mainz, Berlin, Germany) 4505
- 16:15 Circulating tumor cells in chronic obstructive pulmonary disease patients  
C. Sanfiorenzo, K. Risso, V. Sellam, V. Hofman, M. Ilie, E. Long, E. Selva, C. Bonnetaud, C. H. Marquette, P. Hofman (Nice, France) 4506
- 16:30 A step towards easier diagnosis of lung cancer: Detection of volatile organic compounds in air releasing tumour samples with ion- and differential mobility spectrometry  
J. I. Kurth, K. Darwiche, D. Theegarten, J. I. Baumbach, R. Purkhart, L. Freitag (Essen, Saarbruecken, Bernau, Germany) 4507

## ROOM 3.1

## SESSION 462

14:45 - 16:45

**Oral Presentation: Appropriate use of antibiotics in respiratory infections in Europe (the GRACE project)****Chairs: M. Woodhead (Manchester, United Kingdom), G. Rohde (Maastricht, The Netherlands)**

- 14:45 Changing GPs' antibiotic prescribing behaviour in five European countries: A qualitative study within the GRACE project  
S. Anthierens, S. Tonkin-Crine, E. Douglas, L. Yardley, H. Goossens, T. Verheij, S. Coenen (Antwerp, Belgium; Southampton, United Kingdom; Utrecht, The Netherlands) 4508
- 15:00 The effect of amoxicillin in lower respiratory tract infection (LRTI): A placebo controlled RCT in 16 primary care GRACE Networks from 12 countries in Europe  
P. Little, B. Stuart, T. Verheij, C. Butler, M. Moore, S. Coenen, M. Godycki-Cwirko, A. Mierzecki, S. Shlabicz, A. Torres, J. Almirall, P. Edwards, T. Schaberg, S. Mølsted, F. Blasi, A. De Sutter, J. Kersnik, H. Hupkova, P. Touboul, M. Mullee, H. Goossens (Southampton, Cardiff, United Kingdom; Antwerp, Ghent, Belgium; Utrecht, The Netherlands; Lodz, Szczecin, Bialystok, Poland; Barcelona, Mataro, Spain; Rotenburg, Germany; Jonkoping, Sweden; Milan, Italy; Jesenice, Slovenia; Bratislava, Slovakia; Nice, France) 4509
- 15:15 Undetected chronic obstructive lung disorders in patients presenting with acute cough in primary care: Results from the European GRACE study  
L. Broekhuizen, S. van Vugt, P. Zuithof, C. Butler, S. Coenen, H. Goossens, P. Little, T. Verheij (Utrecht, The Netherlands; Cardiff, Southampton, United Kingdom; Wilrijk, Belgium) 4510
- 15:30 Developing clinical definitions of LRTI for research and primary care practice in Europe: A consensus study using the GRACE Network of Excellence  
G. Greene, K. Hood, S. Coenen, T. Verheij, P. Little, H. Goossens, C. Butler (Cardiff, Southampton, United Kingdom; Antwerp, Belgium; Utrecht, The Netherlands) 4511
- 15:45 Detecting pneumonia in patients with acute cough in primary care: Results from the European GRACE study  
T. Verheij, S. van Vugt, L. Broekhuizen, P. Zuithoff, P. de Jong, G. Ieven, H. Goossens, C. Lammens, S. Coenen, C. Butler, P. Little (Utrecht, The Netherlands; Antwerp, Belgium; Cardiff, Southampton, United Kingdom) 4512
- 16:00 GRACE Network of Excellence: Genetic susceptibility to lower respiratory tract infections in Europe  
A. Rautanen, T. Mills, S. Chapman, C. Lammens, M. Ieven, A. Hill (Oxford, United Kingdom; Antwerp, Belgium) 4513
- 16:15 Lower respiratory tract infections in the European GRACE primary care network: Bacterial causes or do viruses also matter?  
M. Ieven, K. Loens, F. Coenjaerts, C. Lammens, A. Vanderstraeten, T. Verheij, P. Little, H. Goossens, E. Claas, A. van Loon (Antwerp, Belgium; Utrecht, Leiden, The Netherlands; Southampton, United Kingdom) 4514

## ROOM 3.2

## SESSION 463

14:45 - 16:45

**Oral Presentation: Biomarkers in sarcoidosis****Chairs: D. Bouros (Alexandroupolis, Greece), C. Albera (Turin, Italy)**

- 14:45 The role of vitamin D3 in the local inflammatory process in sarcoidosis (SA)  
A. Kowalska, E. Puscinska, A. Goljan-Geremek, A. Skoczylas, J. Czerniawska, A. Rozy, P. Jagus, J. Chorostowska-Wynimko, D. Górecka (Warsaw, Poland) 4515
- 15:00 Vitamin D3 and markers of systemic inflammation in sarcoidosis (SA)  
A. Kowalska, E. Puscinska, A. Goljan-Geremek, A. Skoczylas, J. Czerniawska, A. Rozy, P. Jagus, J. Chorostowska-Wynimko, D. Górecka (Warsaw, Poland) 4516
- 15:15 Polymorphisms in CCR5 confer susceptibility to Löfgren's syndrome and may regulate the immune response  
B. Karakaya, C. H. M. van Moorsel, G. T. Rijkers, A. H. M. van der Helm, T. W. J. Huizinga, J. M. M. van den Bosch, J. C. Grutters (Nieuwegein, Leiden, The Netherlands) 4517
- 15:30 Chitotriosidase: A sensitive biomarker of sarcoidosis  
E. Bargagli, D. Bennett, C. Maggiorelli, M. G. Pieroni, R. M. Refini, M. G. Perari, P. Rottoli (Sienna, Italy) 4518
- 15:45 Mycobacterial heat shock protein 16 kDa, marker of dormant stage of mycobacteria, in precipitated circulating immune complexes in sarcoidosis  
A. Dubaniewicz, A. Holownia, M. Singh (Gdank, Bialystok, Poland; Braunschweig, Germany) 4519

## TUESDAY SEPTEMBER 27

- 16:00 Use of discriminant analysis to assess pulmonary functional worsening in patients with sarcoidosis by means of a panel of inflammatory markers  
G. Paone, M. Rulli, A. Belli, A. Propati, A. Sbrocca, S. D'Antonio, A. Sebastiani, G. Puglisi, G. Galluccio, S. Batzella (Rome, Milan, Italy) 4520
- 16:15 Chronic fatigue in sarcoidosis-in-clinical-remission: Psychological and physical characteristics  
I. Korenromp, C. Heijnen, O. Vogels, J. Grutters (Nieuwegein, Utrecht, The Netherlands) 4521

## ROOM 4.2

## SESSION 464

14:45 - 16:45

**Oral Presentation: Access to the periphery: solitary periphery nodule****Chairs: A. Valipour (Vienna, Austria), M. Schuhmann (Winchester, United Kingdom)**

- 14:45 Usefulness of endobronchial ultrasonography with a guide sheath for diagnosing ground glass opacity lesions  
Y. Ikezawa, N. Shinagawa, T. Takashina, K. Ito, I. Ogura, Y. Takeuchi, N. Yamada, H. Asahina, J. Sakakibara-Konishi, S. Oizumi, K. Nakano, N. Sukoh, M. Nishimura (Sapporo, Japan) 4522
- 15:00 Endobronchial ultrasound-guided transbronchial biopsy with thin bronchoscopy for peripheral pulmonary lesions  
M. Oki, H. Saka, C. Kitagawa, Y. Kogure, S. Kajikawa, N. Murata, T. Adachi, S. Oka, R. Tsuboi (Nagoya, Japan) 4523
- 15:15 Efficacy of endobronchial ultrasonography (EBUS) using a guide sheath (EBUS-GS) for transbronchial sampling of peripheral lung lesions  
R. Mustafa, S. Abdellati, M. Munavvar (Preston, United Kingdom) 4524
- 15:30 Ultrasound guided transbronchial cryobiopsy in the diagnosis of peripheral lung lesions: A feasibility and safety trial  
R. Eberhardt, M. Schuhmann, K. Bostanci, N. Kahn, P. A. Schnabel, F. J. F. Herth (Heidelberg, Germany; Istanbul, Turkey) 4525
- 15:45 Safety and tolerance of transbronchial lung biopsy with cryoprobes vs conventional forceps  
L. Garcia-Bellmunt, V. Pajares, A. Torrego, M. C. Puzo, M. A. Gil, V. Plaza (Barcelona, Spain) 4526
- 16:00 Bronchoscopy of peripheral lung lesions: Cost-effectiveness analysis of different combinations of sampling techniques  
K. Roth, T. M. Eagan, F. Leh, A. H. Andreassen, J. A. Hardie (Ålesund, Bergen, Norway) 4527
- 16:15 The effect of forceps type on results and complications of transbronchial lung biopsy  
H. Jabbarjarani, A. Eslaminejad, A. Kiani (Tehran, Islamic Republic of Iran) 4528

## ROOM D203-204

## SESSION 465

14:45 - 16:45

**Symposium: Pro/Con Debate "Allergen avoidance in asthma: useful after all or a waste of time and effort?"**

**Aims:** At the end of this session, the audience will be able to make an informed choice as to whether or not to prescribe allergen avoidance measures in adults and children with asthma, based on the pros and cons of such allergen avoidance, which will be discussed during this session.

**Target audience:** Clinicians involved in the management of adults and children with asthma.

**Chairs: G. Hedlin (Stockholm, Sweden), A. Woodcock (Manchester, United Kingdom)**

- 14:45 Allergen avoidance in allergic asthma: the case for  
P. L. P. Brand (Zwolle, The Netherlands) 4529
- 15:15 Allergen avoidance in allergic asthma: the case against  
G. Roberts (Southampton, United Kingdom) 4530
- 15:45 Rebuttal  
P. L. P. Brand (Zwolle, The Netherlands), G. Roberts (Southampton, United Kingdom) 4531
- 16:15 Closure "The role of allergy in asthma - the experience of the Finnish national campaign on asthma and allergy"  
M. Makela (Helsinki, Finland) 4532

## ROOM G102-103

## SESSION 466

14:45 - 16:45

**Poster Discussion: COPD mechanisms****Chairs: W. MacNee (Edinburgh, United Kingdom), M. Kneussl (Vienna, Austria)**

- P4533 Fibrotic component in patients with emphysema reduces both exercise capacity and quality of life and increases exacerbations  
N. Kokuho, T. Ishii, H. Hayashi, M. Kurahara, T. Motegi, K. Hattori, K. Yamada, K. Kamio, A. Gemma, K. Kida (Tokyo, Japan)
- P4534 Relationship of systemic inflammation and autoimmunity to clinically relevant outcomes in COPD  
B. Nuñez, J. Sauleda, J. M. Antó, M. R. Julià, E. Barreiro, E. Monsó, A. Noguera, J. Gea, F. Gómez, J. Garcia-Aymerich, A. Agustí, PAC-COPD Investigators (Palma de Mallorca, Bunyola, Barcelona, Badalona, Spain)

- P4535 Metabolic phenotype and adipose tissue inflammation in patients with chronic obstructive pulmonary disease  
P. Joppa, J. Ukropec, P. Skyba, B. Ukropcova, P. Pobeha, K. Stroffekova, M. Brusik, D. Gasperikova, R. Tkacova (Kosice, Bratislava, Slovakia)
- P4536 Anemia predicts mortality after COPD exacerbation  
A. Munoz Ferrer, C. Martínez, K. Portillo, P. Serra, M. L. Martínez, I. Garcia Olivé, M. Prats, J. Ruiz Manzano, J. Morera (Badalona, Spain)
- P4537 Relation of cardiac enzymes and echocardiographical findings with long-term mortality after chronic obstructive pulmonary disease exacerbation  
E. C. Seyhan, N. Veske, G. Günlüoğlu, S. Sökücü, M. Düger, S. Altin (Istanbul, Turkey)
- P4538 Relationship between osteoporosis and adipose tissue leptin and osteoprotegerin in patients with chronic obstructive pulmonary disease  
P. Pobeha, J. Ukropec, P. Joppa, B. Ukropcova, P. Skyba, M. Javorsky, D. Gasperikova, R. Tkacova (Kosice, Bratislava, Slovakia)
- P4539 Reduced grip strength is related to frequency of exacerbations and lower health status in COPD  
K. Ansari, J. Munby, G. Burn, I. Taylor, A. Kay, M. Farrow, N. Keaney (Sunderland, Newcastle upon Tyne, United Kingdom)
- P4540 Gender differences in formation of endothelial dysfunction (ED) extension in COPD patients  
L. Konopkina, T. Pertseva (Dnipropetrovsk, Ukraine)
- P4541 COPD GOLD stage 1: Is it really a disease?  
J. Bourbeau, W. Tan, R. Cowie, P. Hernandez, K. Chapman, A. Benedetti, P. Mancino, M. F. Sedeno, P. Z. Li, S. Ling, L. Zheng, S. Bernard, For CanCOLD Study Group (Montreal, Vancouver, Calgary, Halifax, Toronto, Quebec, Canada)
- P4542 Anemia in chronic respiratory failure  
F. Kollert, C. Müller, A. Tippelt, R. A. Joerres, D. Heidinger, C. Probst, M. Pfeifer, S. Budweiser (Freiburg, Donaustauf, Munich, Regensburg, Rosenheim, Germany)
- P4543 Association of inflammation and bronchial hyperresponsiveness  
I. Trofimenko, B. Chernyak (Irkutsk, Russian Federation)
- P4544 Body mass index, central obesity, and severity of chronic obstructive pulmonary disease (COPD)  
Z. Stojanovski, J. Minov, J. Bojan, I. Sasa (Skopje, Kumanovo, FYROM)
- P4545 The expression of brain-derived neurotrophic factor in hippocampal and serum of chronic obstructive pulmonary disease model rats  
Q. Wang, Y. Lin, X. Ling, S. Sun, Q. Zhang (Nanjing, China)
- P4546 Changes in arterial stiffness during COPD exacerbations  
A. R. C. Patel, A. J. Mackay, B. Kowlessar, G. C. Donaldson, J. A. Wedzicha, J. R. Hurst (London, United Kingdom)
- P4547 Total serum bilirubin levels are not related to the severity of COPD  
F. M. E. Franssen, M. A. Spruit, L. G. M. Fransen, E. F. M. Wouters (Horn, The Netherlands)
- P4548 Arterial stiffness measurements in COPD: Reliability over time  
A. R. C. Patel, A. J. Mackay, B. Kowlessar, G. C. Donaldson, J. A. Wedzicha, J. R. Hurst (London, United Kingdom)
- P4549 Evaluation of upper airway involvement and interleukin-8 levels in nasal lavage fluid of stable COPD patients  
H. Çelik, S. Akpınar, B. Dursun, P. Oktar, H. Karabulut, T. Sipit (Ankara, Turkey)

ROOM G104-105

SESSION 467

14:45 - 16:45

**Poster Discussion: Cystic fibrosis: new basic, clinical and bacteriological knowledge****Chairs: B. Fauroux (Paris, France), N. Regamey (Bern, Switzerland)**

- P4550 Ciliary beat frequency in nasal and bronchial epithelial cells in patients with cystic fibrosis  
S. Alikadic, F. Horak, T. Frischer, E. Nachbaur, S. Renner, S. Gruber (Vienna, Austria)
- P4551 Molecular structure, packing and release of MUC2 with relevance to cystic fibrosis  
H. Nilsson, D. Ambort, G. Hansson, H. Hebert (Huddinge, Gothenburg, Sweden)
- P4552 TGF $\beta$ 1 genotype in correlation to TGF $\beta$ 1 induced sputum (IS) and serum in cystic fibrosis (CF)  
S. Schmitt-Grohé, F. Schreiner, L. van den Boom, D. N'Gampolo, O. Eickmeier, R. Schubert, I. Broeckart, S. Zielen, M. Lentze (Bonn, Frankfurt, Germany)
- P4553 Prevalence, risk factors and prognosis of pulmonary hypertension in cystic fibrosis  
B. Fauroux, S. Adnot, P. R. Burgel, J. L. Pepin, P. Y. Boelle, C. Cracowski, M. Murriss-Espin, R. Nove-Josserand, N. Stremmler, T. Simon, T. Damy (Paris, Creteil, Grenoble, Toulouse, Lyon, Marseille, France)
- P4554 Non invasive ventilation for advanced cystic fibrosis lung disease in children  
E. Chan, J. Panickar, B. Thomas (Manchester, United Kingdom)
- P4555 Glucose tolerance during pulmonary exacerbations in children with cystic fibrosis  
J. Widger, M. Oliver, F. Cameron, S. Ranganathan, P. Robinson (Melbourne, Australia)
- P4556 Pre-procedure antibiotics and effect on microbiological yield from broncho-alveolar lavage fluid in children with cystic fibrosis  
S. Kansra, A. Smyth, C. Bertenshaw, A. Ward, M. Hurley, J. Bhatt (Nottingham, United Kingdom)

## TUESDAY SEPTEMBER 27

- P4557 Inspiratory and expiratory reactance at 5Hz in adult cystic fibrosis  
K. Hurt, P. Paredi, H. Kalsi, M. Hodson, D. Bilton, O. Usmani (London, United Kingdom)
- P4558 Lung clearance index (LCI) at age 1-4 years vs lung function and chest X-ray (CXR) scores at age 7 years in children with CF  
A. Lindblad, F. Aljassim, P. Gustafsson (Gothenburg, Skövde, Sweden)
- P4559 Combination of inhaled corticosteroids and long acting beta two agonists improve lung clearance index (LCI) in preschoolers with cystic fibrosis  
E. Hatziaorou, V. Avramidou, S. Botskariova, F. Kirvassilis, J. Tsanakas (Thessaloniki, Greece)
- P4560 Respiratory muscle strength (RMS) in cystic fibrosis adult patients  
N. Marcal, J. Pimentel, S. Moreira, M. Alves, J. Valenca, R. Staats, M. Aguiar, P. Cardim, C. Lopes, A. Bugalho de Almeida (Lisbon, Portugal)
- P4561 Exercise capacity, peripheral muscle dysfunction and genotype in adults with cystic fibrosis  
M. Culebras, A. Álvarez, J. M. Bofill, J. Gámez, E. García, M. Gratacós, A. Ortega, L. Ruano, F. Mata, J. de Gracia (Barcelona, Spain; Mexico City, Mexico)
- P4562 Frequent detection of rhinovirus in bronchoalveolar lavage samples from children with cystic fibrosis  
E. Kieninger, C. Tapparel, M. N. Kronig, F. Singer, P. Latzin, H. L. Tan, C. Bossley, C. Casaulta, A. Bush, J. C. Davies, L. Kaiser, N. Regamey (Bern, Geneva, Switzerland; London, United Kingdom)
- P4563 Whooping cough in cystic fibrosis (CF)  
M. Murriss, N. Guiso, E. Njamkepo, L. Tetu, A. Didier (Toulouse, Paris, France)
- P4564 Effect of recurrent growth of aspergillus on lung function in paediatric population with cystic fibrosis (CF)  
A. Adams, R. Thursfield, A. Bush (London, United Kingdom)
- P4565 Prevalence and impact on FEV<sub>1</sub> decline of methicillin-resistant *Staphylococcus aureus* infection in patients with cystic fibrosis  
E. Vanderhelst, L. De Meirleir, S. Verbanck, D. Piérard, W. Vincken, A. Malfroot (Brussels, Belgium)
- P4566 Prevalence and reservoirs of *A. xylosoxidans* and *S. maltophilia* in cystic fibrosis center  
I. Asherova, S. Monachova, M. Ershova, S. Angelova (Yaroslavl, Russian Federation)
- P4567 Quality of life of paediatric patients with cystic fibrosis and their caregivers  
R. Bodnar, K. Holics, R. Ujhelyi, L. Kovacs, A. Meszaros, L. Kadar (Budapest, Torokbalint, Hungary)

ROOM G106-107

SESSION 468

14:45 - 16:45

**Poster Discussion: Rare lung diseases in children****Chairs: P. Pohunek (Prague, Czech Republic), I. Azevedo (Porto, Portugal)**

- P4568 Pulmonary function and quality of life in children and adolescents adenovirus bronchiolitis obliterans  
S. Nayar, A. M. Escobar, M. Saavedra, A. Vidal (Region Metropolitana, Chile)
- P4569 Obliterative bronchitis verified by bronchoscopic visualisation  
P. Pohunek, K. Vávrová, T. Svobodová, M. Havlišová, L. Hornofová (Praha, Czech Republic)
- P4570 Flexible bronchoscope in pediatrics: Other uses  
P. Caro-Aguilera, E. Perez-Ruiz, J. Perez-Frias, L. Moreno-Requena, J. Rivas, D. Argos (Malaga, Spain)
- P4571 Propranolol treatment in pulmonary capillary hemangiomas  
F. P. Rossi, P. Francalanci, M. C. El Hachem, T. Salerno, M. G. Paglietti, L. Menchini, R. Cutrera (Rome, Italy)
- P4572 Study of auditory function in children with chronic lung diseases  
H. M. Ibrahim, T. B. Kamel, N. M. S. Abdel-Salam, S. R. Abu-Ata (Cairo, Egypt)
- P4573 Health-related quality of life in non-cystic fibrosis bronchiectasis children  
A. Hamzah, Y. Gokdemir, C. Cimsit, R. Ersu, F. Karakoc, B. Karadag (Istanbul, Turkey)
- P4574 Pediatric tracheostomy: Indications and complications rate. An experience from a semi-intensive pediatric respiratory unit  
A. Schiavino, F. P. Rossi, M. G. Paglietti, M. B. Chiarini Testa, T. Salerno, R. Cutrera (Rome, Italy)
- P4575 Comparison of conventional chest physiotherapy and high-frequency chest wall oscillation in primary ciliary dyskinesia  
Y. Gokdemir, R. Ersu, B. Karadag, F. Karakoc (Istanbul, Turkey)
- P4576 Impact of the date of diagnosis on the clinical course of children with primary ciliary dyskinesia  
F. Brinkmann, N. Schwerk, T. Emmrich, G. Hansen (Hanover, Germany)
- P4578 The follow-up of children with tracheobronchial foreign body aspiration  
S. Tas, Z. S. Uyan, N. Uyar, Y. Anik, T. Liman, M. Aydogan, S. Topcu, E. S. Arisoy (Kocaeli, Turkey)
- P4579 Evaluation of respiratory symptoms in children with post-infectious bronchiolitis obliterans  
N. Baranoglu Him, I. Turan, Y. Gokdemir, R. Ersu, B. Karadag, F. Karakoc (Istanbul, Turkey)



ROOM E104-106

SESSION 469

14:45 - 16:45

**Poster Discussion: Lung cell injury and repair****Chairs: T. Martin (Seattle, United States of America), G. Jenkins (Nottingham, United Kingdom)**

- P4580 Late-breaking abstract: Secretory leukocyte protease inhibitor plays an essential role in lung inflammation after naphthalene induction  
T. Damayanti, T. Kikuchi, T. Nukiwa (Sendai, Japan)
- P4581 Intrinsic phenotypic differences of the asthmatic epithelium and its inflammatory responses to RSV and particulate matter  
T. L. Hackett, G. Singhera, F. Shaheen, D. Dorsheid, D. Knight (Vancouver, Canada)
- P4582 Down-regulation of SLPI by cysteinyl leukotrienes in human bronchial epithelial cells can be reverted by glucocorticoids  
S. Altraja, K. Värbu, A. Altraja (Tartu, Estonia)
- P4583 Identification of mesenchymal stromal cells in lung tissue from lung-transplanted patients  
S. Rolandsson, A. Andersson-Sjöland, J. C. Brune, L. Eriksson, S. Scheduling, L. Bjermer, G. Westergren-Thorsson (Lund, Sweden)
- P4584 Lung on Chip: In vitro HGF effects on injured alveolar A549 epithelial cells in microfluidic system  
P. Sallin, L. Barbe, A. Gazdhar, T. Geiser, O. Guenat (Landquart, Bern, Switzerland)
- P4585 Lung on Chip: Co-culture of alveolar epithelial cells & bone marrow derived stromal cells in microfluidic system  
A. Schoeni, L. Barbe, A. Gazdhar, T. Geiser, O. Guenat (Landquart, Bern, Switzerland)
- P4586 TGF- $\beta$  1 suppresses IRF-1 expression in pulmonary fibroblasts and modulates its induction by IFN  $\alpha$  and IFN  $\gamma$   
P. Leoni, X. Shi-Wen, C. Stock, D. Abraham, A. Nicholson, T. Maher, A. Wells, E. Renzoni, G. Lindahl (London, United Kingdom)
- P4587 Alveolar lymphocyte phenotype and respiratory distress syndrome  
K. Risso, C. Sanfiorenzo, G. Kumar, F. de Salvador-Guillouet, A. Bernard, G. Bernardin, P. M. Roger (Nice, France)
- P4588 IL-18 and IL-12 induce inflammatory cytokines, chemokine ligand 9 (CXCL9) and T cell infiltration in pulmonary tissue  
F. Telarevic Cero, K. O. Larsen, V. Hillestad, G. Christensen, O. H. Skjøsberg (Oslo, Norway)
- P4589 Characterization of human mesenchymal stem cells phenotype and secretome in a in vitro model of acute lung injury inflammation  
A. Goolaerts, V. Vanneaux, J. Larghero, M. Matthay, C. Clérici (Paris, France)
- P4590 Keratinocyte growth factor2 significantly reduces endothelial permeability in high altitude pulmonary edema  
J. She, G. Arnaud, Y. Song, C. Bai (Shanghai, China; Paris, France)
- P4591 The nitration mediated inhibition of Rac1 is involved in the endothelial barrier dysfunction induced by lipopolysaccharide  
C. Gross, R. Rafikov, S. Aggarwal, Y. Hou, S. Black (Augusta, United States of America)
- P4592 The role of leptin in pulmonary neutrophilia during murine acute lung injury  
N. D. Ubags, J. H. Vernooy, E. Burg, C. Lenox, L. L. Kordonowy, J. Petty, K. DiPalma, E. F. Wouters, B. T. Suratt (Burlington, United States of America; Maastricht, The Netherlands)
- P4593 Preferential activation of alveolar macrophages versus epithelial cells during initiation of ventilator-induced lung injury in mice  
A. Waite, K. O'Dea, M. Wilson, M. Takata (London, United Kingdom)
- P4594 Immunomodulatory function of chemerin and its receptor ChemR23 in the physiopathology of viral pneumonia and acute lung injury  
B. Bondue, O. Vosters, P. De Nadai, S. Glineur, O. De Henau, S. Luangsay, F. Van Gool, D. Desmecht, P. De Vuyst, M. Parmentier (Brussels, Gosselies, Liège, Belgium)
- P4595 Temporal behavior of lung injury induced by instillation of microcystin-LR in mice  
V. Cagido, N. Casquilho, D. Barbosa, R. Soares, S. Azevedo, S. Valença, W. Zin (Rio de Janeiro, Brazil)
- P4596 Toxicological assessment of indoor airborne fine particulate matter induced oxidative stress in alveolar epithelial cells  
Y. Takano, T. Komura, K. Yagyu, T. Minami (Kitakatsuragi-gun, Osaka, Nankoku, Higashi-Osaka, Japan)
- P4597 Effect of nanoparticle and NO<sub>2</sub> exposure on thoracic gas volume in Brown Norway rat  
S. Layachi, F. Rogerieux, C. Gamez, K. Blazy, F. Robidel, A. Lecomte, G. Lacroix, S. Bayat (Amiens, Verneuil-en-Halatte, France)

ROOM E102

SESSION 470

14:45 - 16:45

**Poster Discussion: Morphological and functional imaging in obstructive airway disease****Chairs: M. Eichinger (Heidelberg, Germany), P. Zanen (Utrecht, The Netherlands)**

- P4598 A new method for detection of flow limitation in COPD using dynamic chest X-ray examination  
N. Motohashi, T. Abe, M. Aoki, K. Morimoto, Y. Shiraiishi, H. Ogata, S. Kudoh (Tokyo, Japan)

## TUESDAY SEPTEMBER 27

- P4599 Gravity dependence of lung density and specific gas volume (SVg) assessed by CT in health and emphysema  
F. Pennati, C. Salito, J. Woods, P. Macklem, A. Aliverti (Milano, Italy; St. Louis, United States of America; Montreal, Canada)
- P4600 Lung structure in healthy never-smokers and smokers assessed by CT-densitometry and chest X-ray  
R. Karimi, S. Nyren, A. Wheelock, G. Tornling, M. Skold (Stockholm, Sweden)
- P4601 Specific gas volume (SVg) variations between different lung volumes in health and emphysema  
F. Pennati, C. Salito, J. Woods, P. Macklem, A. Aliverti (Milano, Italy; St. Louis, United States of America; Montreal, Canada)
- P4602 Gender and age related changes in upper airway morphology in a population of obese/OSA children  
W. Vos, S. Verhulst, J. De Backer, K. Van Hoorenbeeck, W. De Backer (Kontich, Edegem, Belgium)
- P4603 Airway dimensions in COPD patients: Relationship with lung functions  
Z. X. Chen, J. W. Yang (Guangzhou, China)
- P4604 Bone mineral density (BMD) in male patients with chronic obstructive pulmonary disease (COPD) in age 40-70 years  
S. Lemiasheuskaya, A. Makarevich, A. Shepelkevich (Minsk, Republic of Belarus)
- P4605 The relationship between inspiratory capacity and emphysematous changes assessed by CT in Vietnamese COPD patients  
H. Wada, T. Nguyen Van, T. Le Thi Huyen, R. Kanda, Y. Ryujin, M. Yamaguchi, T. Oguma, T. Nagao, E. Ogawa, L. Le Thi Tuyet, Y. Nakano (Otsu, Japan; Ho Chi Minh, Viet Nam)
- P4606 CT densitometry as a predictor of pulmonary function in lung cancer patients  
F. Moloney, S. McWilliams, M. Kennedy, M. Maher, M. Henry (Cork, Ireland)
- P4607 The relationship between echodensitometric parameters of respiratory muscles (RM) and indices of body composition (IBC) in men with chronic obstructive pulmonary disease (COPD)  
S. Lemiasheuskaya, A. Makarevich, A. Pochtavcev (Minsk, Republic of Belarus)
- P4608 Distribution of CT-quantified emphysema: Association with lung function decline  
F. Mohamed Hoesein, P. Zanen, B. van Ginneken, R. van Klaveren, M. Prokop, J. W. Lammers (Utrecht, Rotterdam, Nijmegen, The Netherlands)
- P4609 Tracheo-bronchial collapsibility in different clinically determined COPD phenotypes  
G. Camiciottoli, F. Bigazzi, S. Diciotti, S. Lombardo, M. Mascalchi, M. Pistolesi (Florence, Italy)
- P4610 Computed tomographic diagnosis of air trapping in non- or mildly obstructed smokers  
O. M. Mets, P. Zanen, J. Lammers, I. Isgum, H. A. Gietema, B. van Ginneken, M. Prokop, P. A. de Jong (Utrecht, Nijmegen, The Netherlands)
- P4611 Visual versus quantitative assessment of airways disease in COPD  
M. Han, G. Washko, P. Westgate, S. Murray, F. Martinez, E. Kazerooni, E. Silverman, J. Crapo, E. Hoffman, D. Lynch (Ann Arbor, Boston, Denver, Iowa City, United States of America)
- P4612 Analysis of activation process of dyspnea sensation in CNS in patients with COPD measured by fMRI  
M. Akiyama, J. Suzuki, Y. Nakamura, H. Kobayashi, K. Yamauchi, I. Uwano, Y. Matsumura, M. Sasaki (Morioka, Japan)
- P4613 Anatomically derived regional measurement of lung function  
M. Bennett, T. Havelock, J. Conway, J. Fleming (Southampton, United Kingdom)

ROOM D201-202

SESSION 471

14:45 - 16:45

## Poster Discussion: Disease management in specific primary care populations

Chairs: J. Snoeck-Stroband (Leiden, The Netherlands), M. L. Levy (London, United Kingdom)

- P4614 Patient-reported clinical control and peak-flow: Effects of 30 versus 6 month treatment with inhaled corticosteroids (ICS) with/without long-acting<sub>2</sub>-agonists (LABA) in moderately severe COPD  
J. B. Snoeck-Stroband, T. S. Lapperre, M. M. E. Gosman, W. J. J. Assendelft, H. M. Boezen, N. H. T. ten Hacken, T. van der Molen, P. S. Hiemstra, D. S. Postma, P. J. Sterk, J. K. Sont, The Glucold Study Group (Leiden, Groningen, Amsterdam, The Netherlands)
- P4615 Limitation of activities in treated patients with asthma may be underestimated – Results of a cohort study  
Y. Martinat, G. Granet, D. Leynaud, J. Ostinelli (Lyon, Sainte Foy Les Lyon, Rueil-Malmaison, France)
- P4616 Population segmentation to identify priority targets for identification and behaviour change interventions in COPD  
M. Kearney, J. Crighton, K. Holton, A. Moger, R. Winter, S. Hill (London, United Kingdom)
- P4617 Validity and reproducibility of a physical activity questionnaire for elderly  
L. Siebeling, S. Wiebers, L. Beem, M. Puhan, G. ter Riet (Amsterdam, The Netherlands; Baltimore, United States of America)
- P4618 Urban-rural differences in health status among patients with chronic obstructive pulmonary disease (COPD)  
D. Coultas, F. Su, B. Jackson, S. Suzuki, K. Lo, K. Singh, S. Bae (Tyler, Fort Worth, United States of America)
- P4619 Screening of health status in patients with COPD in primary care is essential  
J. Peters, L. Daudey, A. Lahaije, L. Boer, E. de Geus, J. Molema, Y. Heijdra, J. Vercoulen (Nijmegen, The Netherlands)
- P4620 Using community pharmacy to identify patients at risk of poor asthma control and potential contributory factors  
H. Reddel, K. LeMay, B. Saini, S. Bosnic-Anticevich, L. Smith, D. Burton, J. J. C. Song, M. C. Alles, K. Stewart, L. Emmerton, I. Krass, C. Armour (Sydney, Orange, Melbourne, Brisbane, Australia)

- P4621 Clinical determinants for oral steroids during COPD-exacerbations in primary care  
P. van Velzen, R. J. B. Loijmans, M. Amelink, M. Stommel, G. ter Riet, P. J. Sterk (Amsterdam, The Netherlands)
- P4622 Asthma control or mental lack of control? Are they related?  
R. Poblet, X. Flor, L. Lamarca, J. Mendez, M. V. Feijoo, S. Alvarez (Barcelona, Spain)
- P4623 Inappropriate overuse of inhaled corticosteroids in patients with moderate COPD in UK primary care  
M. Thomas, A. Radwan, C. Stonham, S. Marshall (Aberdeen, Frimley, Stroud, Marlow, United Kingdom)
- P4624 17% of patients who call an ambulance for an exacerbation of COPD could be treated at home  
A. Moore, J. Martin, J. Bowen, P. Katterhorn, A. Davison (Southend on Sea, Cambourne, United Kingdom)
- P4625 Prescribing patterns for allergic rhinitis in general practice setting: Adherence to ARIA guidelines  
M. Simoni, S. Maio, S. Baldacci, A. Angino, P. Silvi, M. Borbotti, F. Martini, F. Di Pede, G. Viegi (Pisa, Palermo, Italy)
- P4626 General practitioners' views about managing depression in patients with chronic obstructive pulmonary disease  
A. Yohannes (Manchester, United Kingdom)
- P4627 Use of GOLD staging as a guide for treating COPD patients in primary care  
D. de la Rosa, A. Ocanya, P. Martínez, R. Bonich, D. Alvarez, E. Calvo, E. Albia (Barcelona, El Masnou, Vic, Spain)
- P4628 Use of a pre-printed oxygen prescription section on a drug chart to improve practice of oxygen prescription and monitoring  
F. Ataklte, J. Wong, B. Prathibha (London, Ashford, United Kingdom)

## ROOM 4.1

## SESSION 472

17:15 - 19:15

**Evening Symposium: Reach, Treat, Benefit: The value of targeting small airways in respiratory diseases***Organised by Chiesi Farmaceutici SpA***Chairs: L. M. Fabbri (Modena, Italy), P. J. Barnes (London, United Kingdom)**

- 17:15 Welcome and introduction  
L. M. Fabbri (Modena, Italy) 4629
- 17:25 Evolving concepts in asthma and COPD treatment  
L. M. Fabbri (Modena, Italy) 4630
- 17:45 Untreated areas in respiratory diseases: implications for patient care  
M. Kraft (Durham, United States of America) 4631
- 18:10 Benefits of small airway treatment: building a clear vision  
D. S. Postma (Groningen, The Netherlands) 4632
- 18:35 Using small particles in daily management of patients. Examples from clinical practice  
M. Contoli (Ferrara, Italy), P. Burgel (Paris, France) 4633
- 19:00 Final remarks  
P. J. Barnes (London, United Kingdom) 4634

## ROOM 4.2

## SESSION 473

17:15 - 19:15

**Evening Symposium: Therapeutic options for PAH in 2011, the start of a new decade***Organised by Eli Lilly and Company***Chairs: A. Vonk Noordegraaf (Amsterdam, The Netherlands), M. Humbert (Clamart, France)**

- 17:15 Introductions  
A. Vonk Noordegraaf (Amsterdam, The Netherlands) 4635
- 17:20 Appropriate diagnostic approach for PAH  
M. M. Hoeper (Hannover, Germany) 4636
- 17:40 Learning from registries  
M. Humbert (Clamart, France) 4637
- 18:00 Combination therapy for PAH  
N. Galiè (Bologna, Italy) 4638
- 18:20 Long term efficacy of drugs approved for PAH  
G. Simonneau (Clamart, France) 4639
- 18:40 Future perspectives in PAH therapy  
A. Peacock (Glasgow, United Kingdom) 4640
- 19:00 Panel discussion and Q&A session  
A. Vonk Noordegraaf (Amsterdam, The Netherlands), M. M. Hoeper (Hannover, Germany), M. Humbert (Clamart, France), N. Galiè (Bologna, Italy), G. Simonneau (Clamart, France), A. Peacock (Glasgow, United Kingdom) 4641
- 19:10 Closing remarks  
M. Humbert (Clamart, France) 4642

## WEDNESDAY SEPTEMBER 28

## AUDITORIUM

## SESSION 477

08:30 - 10:30

**Symposium: Non-CPAP therapies in obstructive sleep apnoea: report of the ERS Task Force group****Aims:** The aims of this session are to:

- improve the knowledge on alternatives to continuous positive airway pressure (CPAP) therapy in sleep-disordered breathing (SDB);
- review evidence on efficient treatment options besides CPAP;
- identify patients to whom alternative methods can be recommended to demonstrate that critical selection of patients can improve outcome;
- evaluate the impact of the severity of the disease on the efficacy of these therapies.

**Target audience:** Clinicians, practitioners, health economists, healthcare scientists and sleep medicine scientists.**Chairs:** J. Verbraecken (Antwerp, Belgium), W. Randerath (Solingen, Germany)

08:30	What can we expect from conservative therapy in obstructive sleep apnoea? B. Sanner (Wuppertal, Germany)	4647
09:00	Oral appliances: a valid alternative for CPAP? M. Marklund (Umea, Sweden)	4648
09:30	Velopharyngeal and nasal surgery: adjuvant or curative? A. Valipour (Vienna, Austria)	4649
10:00	Hypopharyngeal surgery in obstructive sleep apnoea: can we rely on the current evidence? A. Boudewyns (Edegem, Belgium)	4650

EPIDEMIOLOGY/  
ENVIRONMENT

## ROOM 7.2

## SESSION 478

08:30 - 10:30

**Symposium: Heat, dust, smoke and ashes: anthropogenic and natural disaster disease epidemiology****Aims:** The objective of this session is to educate clinicians in the way to handle disasters in the public health domain.**Target audience:** Clinicians, epidemiologists and public health.**Chairs:** D. Heederik (Utrecht, The Netherlands), T. Sigsgaard (Aarhus, Denmark)

08:30	Disasters and respiratory health B. Brunekreef (Utrecht, The Netherlands)	4651
09:00	The clinical findings in the shadow of the World Trade Center tragedy R. De La Hoz (New York, United States of America)	4652
09:30	The impact of heat wave and wild-fires on respiratory morbidity and mortality in Moscow: 2009 B. Revich (Moscow, Russian Federation)	4653
10:00	The Icelandic ash cloud and the air pollution that followed T. Gislason (Reykjavik, Iceland)	4654

## PAEDIATRIC

## ELICIUM 2

## SESSION 479

08:30 - 10:30

**Oral Presentation: Cystic fibrosis: detection and monitoring of early lung diseaseC****Chairs:** H. Tiddens (Rotterdam, The Netherlands), J. Bhatt (Nottingham, United Kingdom)

08:30	Late-breaking abstract: VX-770, an investigational CFTR potentiator, in subjects with CF and the G551D mutation B. J. Plant, B. Ramsey, K. Yen, Q. Dong, S. Rodriguez, J. S. Elborn (Cork, Ireland; Seattle, Cambridge, United States of America; Belfast, United Kingdom)	4655
08:45	Improvement in lung function during the 1 <sup>st</sup> year of life in infants diagnosed with CF through newborn screening (NBS) L. Thia, A. F. Hoo, T. D. Nguyen, D. Ahmed, S. Lum, J. Chudleigh, C. Wallis, A. Bush, A. Wade, J. Stocks (London, United Kingdom)	4656
09:00	Infection and inflammation does not effect ventilation distribution in infants with cystic fibrosis (CF) S. J. Simpson, K. M. Logie, S. Schulzke, J. Park, S. Ranganathan, S. M. Stick, G. L. Hall (Perth, Melbourne, Australia; Basel, Switzerland)	4657
09:15	Comparison of cystic fibrosis structural lung disease detected by inspiratory and expiratory chest CT scans in infants and preschool children L. Mott, K. Gonzalez-Graniel, C. Murray, H. Tiddens, S. Stick, on behalf of AREST CF (Perth, Australia; Rotterdam, The Netherlands)	4658
09:30	Magnetic resonance imaging (MRI) as a non-invasive, radiation-free imaging modality to study the onset and progression of lung disease in infants and young children with cystic fibrosis M. Eichinger, E. Fritsching, A. Kopp-Schneider, M. Sumkauskaitė, D. E. Optazaitė, M. Mall, M. Puderbach (Heidelberg, Germany)	4659

- 09:45 What is the significance of aspergillus fumigatus in BAL in children with cystic fibrosis  
R. Thursfield, A. Bush, A. Adams, A. G. Nicholson, K. Holden (London, United Kingdom) 4660
- 10:00 Newborn screening for cystic fibrosis improves lung function and growth at time of transfer to adult care  
N. Dijk, K. McKay, F. Barzi, D. Fitzgerald (Sydney, Australia) 4661

## ROOM 5.1

## SESSION 480

08:30 - 10:30

**Symposium: New hope with the scope: upcoming endoscopic techniques**

**Aims:** Based on the published literature the new techniques will be described and possible clinical indications will be presented and discussed.

**Target audience:** Clinicians, pulmonologists, surgeons, oncologists, GPs, residents and fellows.

**Chairs:** O. C. Burghuber (Vienna, Austria), M. Wahidi (Durham, United States of America)

- 08:30 Optical coherence tomography  
A. Ernst (Boston, United States of America) 4662
- 09:00 Playing with the wave length: autofluorescence endoscopy and narrow band imaging  
R. Eberhardt (Heidelberg, Germany) 4663
- 09:30 Endocytoscopy  
P. Shah (London, United Kingdom) 4664
- 10:00 NOTES, or natural orificium total endoscopic surgery  
F. Herth (Heidelberg, Germany) 4665

## ROOM 4.1

## SESSION 481

08:30 - 10:30

**Symposium: The modern pulmonologist consultant in a general hospital: the importance of an holistic approach**

**Aims:** Modern pulmonologists and clinicians must act synergistically with other specialists and must take a holistic approach to the "complex patient".

**Target audience:** Clinicians and physicians.

**Chairs:** J-F. Cordier (Lyon, France), A. Chetta (Parma, Italy)

- 08:30 Management of asthma during pregnancy  
V. Murphy (Newcastle, Australia) 4666
- 09:00 Pulmonary-renal interaction. Pulmonary involvement in kidney diseases  
T. Peikert (Rochester, United States of America) 4667
- 09:30 Pulmonologist-rheumatologist interaction in connective tissue diseases  
A. Fischer (Denver, United States of America) 4668
- 10:00 Metabolic syndrome and lung disease: the link of inflammation and stem cell failure  
G. Fadini (Padova, Italy) 4669

## ELICIUM 1

## SESSION 482

08:30 - 10:30

**Oral Presentation: How to improve lung cancer care**

**Chairs:** A. Rich (Nottingham, United Kingdom), T. Blum (Berlin, Germany)

- 08:30 Time to diagnostic procedures and treatment in outpatients diagnosed of lung cancer (LC) included in our rapid diagnose protocol (RPD)  
M. I. Andrade, T. Gutierrez, A. Iridoy, J. A. Cascante, P. Cebollero, V. M. Eguia, J. J. Hueto (Pamplona, Spain) 4670
- 08:45 Self reporting of symptoms and delays in patients presenting to a rapid access lung cancer clinic (RALCC)  
M. Uzbeck, C. Geraghty, E. Dunican, S. Linnane, R. Morgan (Dublin, Ireland) 4671
- 09:00 Managing patient pathways to achieve lung cancer waiting time targets: Mixed method study  
H. Ip, T. Amer, M. Dangoor, A. Zamir, D. Gibbings-Isaac, R. Kochhar, T. Heymann (London, United Kingdom) 4672
- 09:15 Lung cancer multi-disciplinary team (MDT) decisions audit  
B. Mallia-Milanes, J. Graves, J. Meecham-Jones, S. Leong, I. Mortimore, S. O'Hickey, P. Ryan (Hereford, Gloucester, Cheltenham, Worcester, United Kingdom) 4673
- 09:30 Histological typing of lung cancer in bioptically obtained specimens under the aspect of therapeutical approaches – A multi-center study  
A. Fisseler-Eckhoff, R. Zinsky, F. Laenger, P. Schnabel, I. Petersen, K. Junker (Wiesbaden, Hannover, Heidelberg, Jena, Bremen, Germany) 4674
- 09:45 The lung cancer patient in the emergency department  
A. P. Meert, J. Gorham, T. Berghmans, J. P. Sculier (Brussels, Belgium) 4675
- 10:00 Relapse after radical surgery for non-small cell lung cancer 2005-2009 – A retrospective quality management analysis  
N. C. G. Hansen, A. Ør Knudsen (Odense, Denmark) 4676

CLINICAL

ONCOLOGY

WEDNESDAY  
28

## WEDNESDAY SEPTEMBER 28

## FORUM

## SESSION 483

08:30 - 10:30

**Oral Presentation: The impact of the organisation of care on costs: the role of the physician in home care****Chairs: M. Studnicka (Salzburg, Austria), J. Lopez-Campos (Seville, Spain)**

- 08:30 An evaluation of the safety, efficacy and cost-effectiveness for patients with acute respiratory illness, of a community-based intravenous medication service: The first 26 months  
R. A. Khan, J. P. Cullen, S. Zaidi (Dublin, Ireland) 4677
- 08:45 Potential economic savings of administration of home intravenous antibiotic therapy to patients with acute respiratory infections in Ireland  
M. McDonnell, M. Power, R. Rutherford, J. J. Gilmartin, J. J. Gilmartin (Galway, Ireland) 4678
- 09:00 A prospective re-audit of admissions and discharge delays occurring in patients admitted to a district general hospital's respiratory ward in the United Kingdom  
C. Chadwick, D. Murray, R. Sarkar, A. de Ramon Casado (Warrington, United Kingdom) 4679
- 09:15 The attitude of physicians for asthma treatment and results in the inhaler market between 2004-2009 in Turkey  
S. Altin, H. V. Kara (Istanbul, Gumushane, Turkey) 4680
- 09:30 Stepping up the controller medication in asthma patients: Impact of various treatment options on costs  
M. Sadatsafavi, P. Bedouch, M. FitzGerald, C. Narra, L. Lynd (Vancouver, Canada) 4681
- 09:45 The cost and diagnostic efficacy of microbiological evaluation of exudative pleural effusion  
S. Tekgöl, S. Bilaceroglu, H. Kuma, A. K. Cirak, S. Ozkaya (Izmir, Turkey) 4682

## ROOM 5.2

## SESSION 484

08:30 - 10:30

**Oral Presentation: Translational models of airway disease****Chairs: M. Belvisi (London, United Kingdom), A. Van Oosterhout (Groningen, The Netherlands)**

- 08:30 Bitter taste receptor agonists as a novel class of bronchodilators in guinea-pig airways  
V. Pulkkinen, J. Säfholm, M. Manson, M. Adner, S. E. Dahlén (Stockholm, Sweden) 4683
- 08:45 Prostacyclin modifies VEGF synthesis in fibroblasts from healthy and COPD patients  
A. K. Larsson, O. Hallgren, L. Bjermer, C. G. Löfdahl, G. Westergren-Thorsson (Lund, Sweden) 4684
- 09:00 Capsazepine inhibits NF- $\kappa$ B subunits in dsRNA-exposed human bronchial epithelial cells from asthmatic and COPD donors  
I. Mahmutovic Persson, A. Brandelius, L. Bjermer, J. Calvén, Y. Yudina, L. Uller (Lund, Sweden) 4685
- 09:15 Bradykinin-induced contractions in guinea pig trachea after incubation and culture  
M. Manson, J. Säfholm, S. E. Dahlén, M. Adner (Stockholm, Sweden) 4686
- 09:30 Protective effect of a protein epitope mimetic (PEM) CCR10 antagonist, POL7085, in an allergic model of asthma  
F. Daubeuf, F. Jung, E. Chevalier, N. Frossard (Illkirch, France; Allschwil, Switzerland) 4687
- 09:45 Characterisation of TNF-alpha lectin-like domain derived peptides associated with improved alveolar fluid clearance in pulmonary oedema  
S. Tzotzos, B. Fischer, H. Pietschmann, H. Fischer, R. Lucas, W. Shabbir, R. Lemmens-Gruber (Vienna, Austria; Augusta, United States of America) 4688
- 10:00 Consequences of chronic pulmonary TLR9 activation in the lung and beyond  
G. Bezemer, D. Fillipov, E. Mortaz, I. van Ark, J. Garssen, A. Kraneveld, F. Ossendorp, G. Folkerts (Utrecht, Leiden, Wageningen, The Netherlands) 4689
- 10:15 Efficacy of the TRPV1 antagonist SB-705498 in an MRI guinea pig model of rhinitis  
K. Changani, S. Hotee, S. Campbell, K. Pindoria, P. Saklatvala, D. Coe, K. Biggadike, G. Vitulli, J. Denyer (Stevenage, United Kingdom) 4690

## ROOM 3.1

## SESSION 485

08:30 - 10:30

**Oral Presentation: Smoking-related disorders****Chairs: B. Dautzenberg (Paris, France), P. I. Van Spiegel (Amsterdam, The Netherlands)**

- 08:30 Late-breaking abstract: Effectiveness of easy smoking cessation clinic in tertiary health care settings: Observational study of cohorts  
R. Champunot, M. Waikasikorn, P. Mawehe, A. Pongphot, M. Poohkesorn, J. Suwannakit, S. Jirasmitha (Phitsanulok, Thailand) 4691
- 08:45 LSC 2011 Abstract: Evaluation of morpho-functional changes in airways of young cigarette smokers  
A. Kislina, G. Strazda, L. Balode, M. Beinare, N. Jurka, I. Taivans (Riga, Latvia) 4692
- 09:00 Cannabis use in patients with a primary spontaneous pneumothorax  
L. Hendriks, G. Bootsma, J. van Noord (Heerlen, The Netherlands) 4693
- 09:15 Cigarette smoke induces  $\beta$ 2-integrin-dependent neutrophil migration across human umbilical vein endothelium  
S. Overbeek, S. Braber, P. Henricks, M. Kleinjan, V. Kamp, N. Georgiou, J. Garssen, A. Kraneveld, G. Folkerts (Utrecht, Wageningen, The Netherlands) 4694

BASIC

- 09:30 Waterpipe smoking and dependence are associated with chronic obstructive pulmonary disease: A case control study  
G. Khayat, P. Salameh, M. Waked, M. Dramaix (Beirut, Lebanon; Brussels, Belgium) 4695
- 09:45 The mother's smoking during pregnancy influences on endothelial dysfunction in newborns  
A. Khotsenko (Kharkov, Ukraine) 4696
- 10:00 Smoking ages your lungs – Results from the COLD cohort  
W. Tan, J. Burns, J. Bourbeau, K. Chapman, P. Hernandez, R. Cowie, M. FitzGerald, D. Sin (Vancouver, Montreal, Toronto, Halifax, Calgary, Canada) 4697
- 10:15 The impact of smoke-free legislation on smoking-related emergency admissions in Istanbul  
E. Dagli, E. Erdem, A. Topuzoglu, P. Ay, S. Birinci, I. Topcu, R. Ersu (Istanbul, Turkey) 4698

## ROOM 3.2

## SESSION 486

08:30 - 10:30

## Oral Presentation: Surgical options in pulmonary infections

Chairs: D. Subotic (Belgrade, Republic of Serbia), H. Ris (Lausanne, Switzerland)

- 08:30 Surgical treatment of pulmonary aspergilloma  
J. Oor, J. Bekaert, J. Daniels, P. Postmus, K. Hartemink, M. Paul, W. Oosterhuis (Amsterdam, The Netherlands) 4699
- 08:45 The effect of preoperative albendazole treatment on the cuticular membrane of the pulmonary hydatid cysts  
O. Usluer, O. Samancilar, K. C. Ceylan, S. Kaya (Izmir, Turkey) 4700
- 09:00 Comparison between video-thoroscopic and open surgical management of thoracic empyema  
P. Michos, A. Stamatelopoulos, I. Gakidis, C. Chatziantoniou, K. Skevis, D. Doltsiniades (Athens, Greece) 4701
- 09:15 Video-assisted modified Weder method for accelerated treatment of postpneumonectomy empyema without bronchopleural fistula  
D. Petrov, E. Goranov, S. Alexov, Y. Steneva (Sofia, Bulgaria) 4702
- 09:30 Mechanical versus enzymatic debridement in the management of thoracic empyemas  
G. Hardavella, G. Papavasileiou, D. Zacheilas, G. Dionellis, M. Alchanatis, N. Anastasiou (Athens, Greece) 4703
- 09:45 Present forms of the tuberculosis for which surgery is required  
N. Galie, C. Savu, V. Grigorie, C. Petreanu, E. Crisan, E. Tabacu (Bucharest, Romania) 4704
- 10:00 The results of surgical treatment of patients with tuberculosis of lungs and pleura and diabetes mellitus  
Y. Voloshyn (Kyiv, Ukraine) 4705

INFECTION

## ROOM 4.2

## SESSION 487

08:30 - 10:30

## Oral Presentation: Severity, comorbidities and outcomes in community-acquired pneumonia

Chairs: A. Torres (Barcelona, Spain), G. Dimopoulos (Athens, Greece)

- 08:30 Late-breaking abstract: CAP, HCAP and immunocompromised patients with pneumonia: Should we rethink the concepts?  
M. Carrabba, M. Zarantonello, C. Hu, P. Bonara, G. Fabio (Milano, Italy) 4706
- 08:45 Weight of the IDSA/ATS minor criteria for severe community-acquired pneumonia  
Q. Guo, H. Y. Li, Y. P. Zhou, M. Li, X. K. Chen, H. Liu, H. L. Peng, H. Q. Yu, X. Chen, N. Liu, L. H. Liang, Q. Z. Zhao, M. Jiang (Shenzhen, Guangzhou, China) 4707
- 09:00 The impact of cardiovascular events in hospitalized patients with community-acquired pneumonia (CAP): Preliminary results from the FAILCAP study  
L. Morlacchi, S. Aliberti, A. Gramegna, A. Voza, L. Pancini, C. Baumgartner, F. Giuliani, R. Fantini, A. Lasagni, E. Lavezzi, S. Perossi, P. Peyrani, V. Monzani, A. Pesci, J. Ramirez, F. Blasi (Milan, Modena, Monza, Italy; Basel, Switzerland; Louisville, United States of America) 4708
- 09:15 Serum cortisol predicts death and critical disease independently of CRB-65 score in community-acquired pneumonia  
M. Kolditz, M. Pletz, G. Höffken, on behalf of the CAPNETZ Study Group (Dresden, Jena, Germany) 4709
- 09:30 A population-based study of statin, ARB, and ACE inhibitor use on pneumonia-related outcomes  
E. Mortensen, J. Cornell, L. Copeland, B. Nakashima, M. J. Pugh, M. Restrepo, A. Anzueto (San Antonio, United States of America) 4710
- 09:45 Dysnatremia, vasopressin, atrial natriuretic peptide and mortality in community-acquired pneumonia – Results from the German competence network CAPNETZ  
S. Krüger, J. Kunde, O. Hartmann, N. Suttorp, G. Rohde, T. Welte (Aachen, Henningsdorf, Berlin, Hannover, Germany; Maastricht, The Netherlands) 4711
- 10:00 How to recognize clinical stability in hospitalized patients with community-acquired pneumonia (CAP)?  
S. Aliberti, T. Wiemken, A. Zanaboni, A. Nahas, S. Uppatla, C. Traverso, F. Giuliani, V. Giunta, G. Salomoni, C. Conti, E. Parazzini, P. Peyrani, F. Blasi, J. Ramirez (Monza, Milan, Italy; Louisville, United States of America) 4712
- 10:15 Inhaled corticosteroids (ICS), systemic inflammatory response and mortality in community-acquired pneumonia (CAP)  
M. Ferrer, A. Torres, S. Reyes, R. Martinez, P. Ramirez, E. Polverino, C. Agusti, J. Cordoba, R. Menendez (Barcelona, Valencia, Spain) 4713

INTENSIVE CARE

WEDNESDAY  
28

## WEDNESDAY SEPTEMBER 28

EMERALD

SESSION 488

08:30 - 10:30

## Oral Presentation: Phenotyping airway diseases

Chairs: G. Joos (Ghent, Belgium), A. Ten Brinke (Molenend, The Netherlands)

- 08:30 Periostin is a systemic biomarker of eosinophilic airway inflammation in asthma  
G. Jia, R. Erickson, D. Choy, S. Mosesova, O. Solberg, A. Shikotra, R. Carter, S. Audusseau, Q. Hamid, P. Bradding, J. Fahy, P. Woodruff, J. Harris, J. Arron (South San Francisco, San Francisco, United States of America; Leicester, United Kingdom; Montreal, Canada) 4714
- 08:45 Pathophysiology of airway hyperresponsiveness in patients with nasal polyposis  
B. Mahut, L. Plantier, B. Chevalier-Bidaud, C. Delclaux (Paris, France) 4715
- 09:00 Steroid titration against mannitol in mild to moderate persistent asthma (STAMINA trial)  
B. Lipworth, L. McKinlay, P. Short, C.M Jackson, P. Williamson, T. Fardon, K. Clearie (St Andrews, ; Dundee, United Kingdom) 4716
- 09:15 Preparing asthmatic patients to climb to extreme high altitude (asthma Aconcagua expedition)  
S. Seys, M. Daenen, L. Dupont (Leuven, Genk, Belgium) 4717
- 09:30 Inflammatory subtypes of non-atopic asthma  
J. C. de Groot, H. Storm, E. H. Bel, A. ten Brinke (Leeuwarden, Amsterdam, The Netherlands) 4718
- 09:45 The role of food allergy in adult onset asthma  
M. Amelink, S. B. de Nijs, P. van Spiegel, F. H. Krouwels, E. J. M. Weersink, A. ten Brinke, P. J. Sterk, E. H. Bel (Amsterdam, Leeuwarden, The Netherlands) 4719
- 10:00 Expression of prohibitin 1 mitochondrial protein in non-COPD and COPD smokers  
N. Soulitzis, E. Neofytou, M. Psarrou, S. Menikou, N. Siafakas, E. Tzortzaki (Heraklion, Greece) 4720
- 10:15 Biomarker discovery in chronic obstructive pulmonary disease (COPD) using epithelial lining fluid: A proteomic approach  
L. Franciosi, N. Govorukhina, F. Fusetti, B. Poolman, N. ten Hacken, D. Postma, R. Bischoff (Groningen, The Netherlands) 4721

ROOM D203-204

SESSION 489

08:30 - 10:30

## Oral Presentation: Continuous medical education

Chairs: K. E. Bloch (Zurich, Switzerland), J. Annema (Leiden, The Netherlands)

- 08:30 Training requirements for respiratory physicians performing ultrasound-guided transesophageal fine needle aspiration (EUS-FNA) for mediastinal staging  
L. Konge, J. Annema, P. Clementsen, P. Vilman, C. Ringsted (Copenhagen, Gentofte, Denmark; Leiden, The Netherlands) 4722
- 08:45 A Delphi study to create grade-specific competencies for a trust-wide non-invasive ventilation training programme  
A. Shah, R. Sharpe, T. Kuwani (London, United Kingdom) 4723
- 09:00 A survey of intensive care medicine training for respiratory specialist trainees in the United Kingdom  
S. M. H. Kazmi, A. Sahal, R. Ahmed, M. J. Naveed, L. Davies, R. Parker (Liverpool, Hereford, Leeds, United Kingdom) 4724
- 09:15 Special interest training in respiratory medicine across Yorkshire: A web based survey  
A. Dwarakanath (Leeds, United Kingdom) 4725
- 09:30 Attitude of chest physicians working in provincial state hospitals, in Turkey toward continuous medical education  
T. Ozdemir, L. Yilmaz Aydin (Corum, Duzce, Turkey) 4726
- 09:45 Developing respiratory services – What are the needs of the respiratory clinician leaders and what can a short course deliver?  
S. Holmes, N. Bullen, S. Gaduzo, B. Penney, S. Walmsley (Shepton Mallet, United Kingdom) 4727

ROOM G102-103

SESSION 490

08:30 - 10:30

## Poster Discussion: Physiological basis of respiratory disease

Chairs: W. Zin (Rio De Janeiro, Brazil), R. Farré (Barcelona, Spain)

- P4728 Late-breaking abstract: Comparative analysis of cardiopulmonary and clinical responses to six minute walking test and maximal exercising test in obese women  
L. Di Thommazo-Luporini, S. Pilon Jürgensen, V. Castello, C. Negrão Dias, R. Luís Luporini, J. Carlos Bonjorno-Júnior, C. Ricardo de Oliveira, A. Maria Catai, A. Borghi-Silva (São Carlos, Sao Carlos, Brazil)
- P4729 Late-breaking abstract: Time-dependent effect of acute hypoxia on brain excitability in healthy humans  
S. Verges, T. Rupp, M. Jubeau, B. Wuyam, S. Perrey, P. Levy, G. Millet (Grenoble, Saint-Etienne, Montpellier, France)



- P4730 Late-breaking abstract: Association between serum surfactant protein D (SP-D) and lung function measurements in self-reported healthy twins  
S. Lock Johansson, Q. Tan, A. Schlosser, I. Titlestad, U. Holmskov, K. Kyvik, G. Sørensen (Odense, Denmark)
- P4731 Late-breaking abstract: Determination of anaerobic threshold through different methodologies during ramp protocol in elderly healthy men  
M. Reis, R. Arena, D. Berton, A. Barroco, A. Catai, J. A. Neder, A. Borghi-Silva (Sao Carlos, São Paulo, Brazil; Albuquerque, United States of America)
- P4732 Cytokine expression in the diaphragm of rats breathing against subacute hypoxic conditions  
M. Dominguez, S. Pascual, M. Sabaté, F. Sánchez, C. Casadevall, E. Barreiro, J. Gea (Barcelona, Spain)
- P4733 The impact of aerobic exercise on lung inflammation and remodeling in experimental emphysema  
I. Guimaraes, G. Padilha, M. Lopes-Pacheco, P. Marques, M. Antunes, N. Rocha, E. Assis, H. Faria-Neto, R. Magalhaes, D. Xisto, P. Rocco (Rio de Janeiro, Niterói, Brazil)
- P4734 Regular and moderate exercise prevents airway remodeling in a murine model of chronic allergic asthma  
C. Samary, C. Araujo, I. Guimaraes, J. Silva, A. Silva, M. Antunes, P. Marques, B. Dias, I. Abreu, N. Rocha, V. Capelozzi, P. Rocco (Rio de Janeiro, Niterói, São Paulo, Brazil)
- P4735 Repeated mannitol or NaCl hyperosmolar exposure of bronchial epithelial cells to mimic exercise-induced airways damage  
L. Chimenti, R. Santagata, V. Bellia, R. Farrè, M. R. Bonsignore (Barcelona, Spain; Palermo, Italy)
- P4736 Acute exposure to mechanical forces deteriorates lung structure and function in a mouse model of emphysema  
M. Szabari, S. Sato, H. Parameswaran, E. Bartolák-Suki, Z. Hantos, B. Suki (Szeged, Hungary; Boston, United States of America; Kyoto, Japan)
- P4737 Aerobic exercise training attenuates the decrease in heart rate variability induced by exposure to cigarette smoke in mice  
A. C. Toledo, J. Brito, R. M. Magalhães, A. C. Caleman-Neto, B. Camilo, F. Almeida, P. Mello, C. R. Olivo, F. D. T. Q. S. Lopes, C. J. Lin, P. H. N. Saldiva, M. A. Martins (São Paulo, Brazil)
- P4738 Site of ROS production by mitochondria of skeletal muscle of patients with COPD  
L. Puente-Maestu, J. de Miguel, L. Álvarez-Sala, A. Tejedor, A. Lázaro, E. Ojeda, T. Gómez, A. Agustí (Madrid, Barcelona, Spain)
- P4739 Role of systemic and muscle oxidative stress and cytokines in patients with lung cancer cachexia  
E. Barreiro, P. Ausin, F. Sanchez, E. Puig-Vilanova, J. Martinez-Llorens, V. Curull, J. Broquetas, J. Gea (Barcelona, Spain)
- P4740 Iron deficiency as a novel biomarker of functional impairment in patients with chronic obstructive pulmonary disease (COPD)  
D. A. Rodriguez, J. Roca, A. Ramirez-Sarmiento, I. Blanco, J. Gea, A. Barberan, Y. Torralba, A. Arbillaga, J. A. Barbera, J. Vilaro, M. Orozco-Levi (Barcelona, Spain)
- P4741 Predictors for developing hypoxic respiratory failure in COPD – A 3-year follow-up  
E. W. Saure, T. M. L. Eagan, R. L. Jensen, P. S. Bakke, M. Voll-Aanerud, E. Thorsen, J. A. Hardie (Bergen, Norway; Salt Lake City, United States of America)
- P4742 Plasma vitamin D concentration and clinical characteristics in clinically stable patients with moderate COPD  
E. Romme, L. Graat-Verboom, E. Rutten, F. Smeenk, M. Spruit, E. Wouters (Eindhoven, Horn, Maastricht, The Netherlands)
- P4743 Effects of sildenafil and the association of sildenafil-sildenafil on the NO/CO transfer factor in lowlanders exposed to high altitude  
J. B. Martinot, C. de Bisschop, C. Scoditti, C. Dedobbeleer, M. Overbeek, R. Naeije, H. Guenard (Namur, Brussels, Belgium; Poitiers, France; Bari, Italy; Amsterdam, The Netherlands)
- P4744 Exercise pathophysiology in patients with chronic mountain sickness  
H. Groepenhoff, M. Van der Plas, S. Beloka, V. Faoro, M. Overbeek, F. Villafuerte, R. Naeije (Amsterdam, The Netherlands; Brussels, Belgium; Lima, Peru)

## Poster Discussion: Molecular: pathology of infectious and inflammatory lung disease

Chairs: R. Lucas (Augusta, United States of America), M. Ochs (Hannover, Germany)

- P4745 Induced sputum differential gene expression implicates increased p38 signalling activity in severe asthma  
K. Baines, J. Simpson, L. Wood, R. Scott, P. Gibson (Newcastle, Australia)
- P4746 Sputum gene expression of mast cell tryptase and carboxypeptidase A3 are increased in eosinophilic asthma  
K. Baines, J. Simpson, L. Wood, R. Scott, P. Gibson (Newcastle, Australia)
- P4747 Coordinate regulation of IL-4 and IL-13 expression in human T cells: 3C analysis for DNA looping  
X. Yao, W. Song, W. Zha, P. J. Barnes, I. M. Adcock, A. L. Durham (Nanjing, China; London, United Kingdom)
- P4748 microRNA profiling in pulmonary fibroblasts in COPD  
C. A. Brandsma, S. Christenson, J. Campbell, M. Jonker, M. Lenburg, A. Spira, J. Hogg, D. Postma, W. Timens (Groningen, The Netherlands; Boston, United States of America; Vancouver, Canada)

## WEDNESDAY SEPTEMBER 28

- P4749 microRNA-34a and microRNA 199a-5p in COPD and their control of HIF-1 $\alpha$  expression in pulmonary vascular endothelial cells  
S. Mizuno, J. Gomez-Arroyo, A. Alhussaini, D. Kraskauskas, C. Cool, H. Bogaard, N. Voelkel (Richmond, Aurora, United States of America; Amsterdam, The Netherlands)
- P4750 Preventing the consequences of Z alpha-1 accumulation *in vivo*  
S. Alam, J. Wang, S. Janciauskiene, R. Mahadeva (Cambridge, United Kingdom; Hannover, Germany)
- P4751 Cigarette smoke exposure directly induces increased ubiquitination and impairs hypoxic-angiogenic signalling in skeletal muscles  
V. Basic, H. Yao, I. Rahman, A. Sirsjö, S. M. Abdel-Halim (Örebro, Uppsala, Stockholm, Sweden; New York, United States of America)
- P4752 BAMBI – A TGF- $\beta$  pseudoreceptor with possible functional involvement in COPD and NTHI infection  
S. Marwitz, D. Droemann, J. Rupp, K. Rohmann, S. Osbahr, A. J. Ulmer, K. Röschmann, M. Abdullah, H. Schultz, E. Vollmer, P. Zabel, K. Dalhoff, T. Goldmann (Borstel, Lübeck, Germany)
- P4753 Elevated osteoprotegerin in COPD is potentially regulated by oxidative stress dependent glycogen synthase kinase-3 $\beta$  and  $\beta$ -catenin signalling  
M. To, C. E. Charron, S. A. Kharitonov, P. J. Barnes, K. Ito (London, United Kingdom)
- P4754 Overexpression of chitinase 3-Like 1/YKL-40 in lung-specific IL-18-transgenic mice, smokers and COPD  
Y. Sakazaki, T. Hoshino, S. Takei, M. Sawada, H. Oda, S. I. Takenaka, H. Imaoka, K. Matsunaga, H. Aizawa (Kurume, Japan)
- P4755 Lung fibroblasts from COPD patients presented a reduced response to TGF- $\beta$ 1 for proliferation and elastin synthesis  
J. Zhang, L. Wu, M. X. Feng, P. Sexton, C. X. Bai, M. J. Merrilees, P. Black, P. Black (Shanghai, Auckland, China; Auckland, New Zealand)
- P4756 AntagomiR directed against miR-20a restores BMP signaling in hypoxia-induced pulmonary hypertension *in vivo*  
M. Brock, M. Trenkmann, C. Schwarzwald, S. Ulrich, M. Gassmann, L. Ostergaard, S. Gay, R. Speich, L. Huber (Zurich, Switzerland)
- P4757 Adrenergic receptor blocker reverses cardiac metabolic remodeling and improves right ventricular function in experimental pulmonary hypertension  
J. Gomez-Arroyo, S. Mizuno, L. Farkas, D. Kraskauskas, D. Farkas, A. Husseini, A. Abbate, H. Bogaard, N. Voelkel (Richmond, United States of America; Amsterdam, The Netherlands)
- P4758 Plasma protein profiling in alpha-1-antitrypsin deficiency  
H. Stone, D. Ward, R. Stockley (Birmingham, United Kingdom)
- P4759 TRPA1 expression and characterisation in patients with chronic cough  
S. Faruqi, A. Campbell, A. Morice (Cottingham, Hull, United Kingdom)
- P4760 Expression of the Bcl-2 binding protein beclin 1 in human idiopathic pulmonary fibrosis  
D. Scozzi, S. Mariotta, E. Cherubini, V. Pietrangeli, M. Del Forno, L. Tabbi, L. Pisani, P. Bruno, A. Ricci (Rome, Italy)

ROOM G106-107

SESSION 492

08:30 - 10:30

## Poster Discussion: Bronchoalveolar lavage and biomarkers in diffuse parenchymal lung disease

Chairs: C. Robalo Cordeiro (Coimbra, Portugal), C. Albera (Turin, Italy)

- P4761 Overexpression of matrix metalloproteinase-7 (MMP-7) in bronchoalveolar lavage fluid (BALF) of IPF and lung cancer patients  
K. Samara, I. Giannarakis, I. Papanikoalou, I. Lambiri, N. Sifakas, K. Antoniou (Heraklion, Greece)
- P4762 Expression profiling of Th17 cell activators revealed elevation of STAT-3 in progressing sarcoidosis  
R. Fillerova, E. Kriegova, T. Tomankova, F. Mrazek, M. Zurkova, V. Kolek, M. Petrek (Olomouc, Czech Republic)
- P4763 Fibrocytes are detected in bronchoalveolar lavage (BAL) fluid in idiopathic pulmonary fibrosis (IPF)  
R. Borie, C. Quesnel, S. Phin, M. P. Debray, J. Marchal-Somme, K. Tiev, P. Soler, M. Dehoux, B. Crestani (Paris, France)
- P4764 Characterization of myofibroblasts cultured from small volumes of diagnostic bronchoalveolar lavage fluid samples  
R. Kaarteenaho, H. Karvonen, T. Harju, R. Sormunen, E. Lappi-Blanco, M. Keinänen, H. Merikallio, S. Lehtonen (Oulu, Finland)
- P4765 Mechanisms of impaired immune surveillance in lower airways of smokers. Data from bronchoalveolar lavage (BAL) harvested in selected interstitial lung diseases (ILDs) and control group  
P. Kopinski, A. Dyczek, G. Przybylski, B. Balicka-Slusarczyk, A. Jarzemska, T. Wandtke, E. Pólgesek, M. Igielska (Bydgoszcz, Kraków, Poland)
- P4766 Expression of transforming growth factor  $\beta$  (TGF $\beta$ ) receptor, CD105, is declined in Th1 interstitial lung diseases (ILDs)  
A. Dyczek, J. Szczeklik, B. Balicka-Slusarczyk, J. Chorostowska, A. Szpehcinski, E. Pólgesek, M. Jankowski, P. Kopinski (Kracow, Warsaw, Bydgoszcz, Poland)
- P4767 Proteological assesment of idiopathic pulmonary fibrosis and hypersensitivity pneumonitis by mean of bronchoalveolar lavage  
S. Willems, J. Somers, S. E. Verleden, G. M. Verleden, J. Yserbyt, C. Doooms, B. Vanaudenaerde, W. Wuyts (Leuven, Belgium)

- P4768 Diagnostic value of bronchoalveolar lavage and lymphocyte transformation test in drug-induced lung disease  
Y. Kimizuka, S. Tasaka, W. Yamasawa, M. Ishii, H. Kamata, H. Fujiwara, Y. Funatsu, H. Namkoong, N. Hasegawa, M. Murata, K. Asano (Tokyo, Japan)
- P4769 Clinical and functional features in idiopathic pulmonary fibrosis (IPF) with and without haemosiderin-laden alveolar macrophages on BALF  
C. Vitale, E. Carpentieri, F. Perna, M. Pitassi, A. Molino, A. Stanziola, M. Sofia (Naples, Italy)
- P4770 Differential cell count in BAL by flow cytometry using CD15 FITC/CD16PE/CD45 PERCP/HLA-DR APC monoclonal antibodies  
M. Arias, B. Palomo, J. Belda, L. Tricas, M. P. Paniagua, C. Martinez, M. Gonzalez, A. Quero, P. Casan (Oviedo, Spain)
- P4771 LSC 2011 Abstract: Bronchoalveolar lavage in radiation pneumonitis after radiotherapy for breast cancer  
C. L. Toma, A. Serbescu, M. Alexe, L. Cervis, D. Ionita, M. A. Bogdan (Bucharest, Romania)
- P4772 Detection of differences in volatile organic compounds (VOCs) by ion mobility spectrometry (IMS) of exhaled breath in patients with interstitial lung diseases (ILDs) compared to healthy controls (HC)  
O. Anhenn, T. Rabis, U. Sommerwerck, G. Weinreich, J. I. Baumbach, I. Kurth, K. Darwiche, L. Freitag, H. Teschler, U. Costabel (Essen, Saarbrücken, Germany)
- P4773 Phospho-ERM localization in UIP specimens: An immunohistochemistry approach  
S. Inghilleri, G. M. Stella, M. Zorzetto, I. Campo, P. Morbini, T. Oggioni, M. Luisetti (Pavia, Italy)
- P4774 Serum napsin A is a novel diagnostic and monitoring marker for interstitial lung disease  
T. Samukawa, T. Hamada, G. Tsukuya, H. Inoue (Kagoshima, Japan)
- P4775 Extracellular matrix profile of lung in idiopathic pulmonary fibrosis  
S. Estany, V. Vicens, R. Llatjós, R. Penín, I. Escobar, A. Xaubet, F. Manresa, J. Dorca, M. Molina-Molina (L'Hospitalet de Llobregat, Barcelona, Spain)
- P4776 Elevation of serum tumor markers in patients with interstitial lung disease  
J. Liu, H. Dai, L. Liang, L. Peng, J. Jiang (Beijing, China)
- P4777 Interferon-g or azathioprine plus corticosteroids do not alter the expression of apoptotic markers in alveolar macrophages of patients with IPF  
F. Drakopanagiotakis, A. Xyfteri, E. Tsiambas, G. Vilaras, A. Karameris, C. Tsakanika, V. Polychronopoulos, D. Bouros (Athens, Alexandroupoli, Greece)
- P4778 Reliability of ATS/ERS criteria for the diagnosis of idiopathic pulmonary fibrosis  
S. Ohshimo, F. Bonella, K. Tanigawa, N. Kohno, J. Guzman, U. Costabel (Essen, Bochum, Germany; Hiroshima, Japan)

ROOM E104-106

SESSION 493

08:30 - 10:30

**Poster Discussion: Role of the biomarkers in airway diseases****Chairs: S. Loukides (Athens, Greece), R. Louis (Liege, Belgium)**

- P4779 Bronchial and alveolar exhaled nitric oxide as a marker of systemic involvement in patients with Crohn's disease  
M. Malerba, B. Ragnoli, A. Radaeli, C. Ricci, F. Lanzarotto, A. Lanzini (Brescia, Italy)
- P4780 Are the flow independent NO parameters flow dependent?  
M. Högman, P. Meriläinen (Gävle, Uppsala, Sweden)
- P4781 There is no need for complicated equations and mathematical models. Exhaled nitric oxide can be partitioned with two simple exhalations  
P. Paredi, O. Usmani, K. Hurt, N. Pride, P. Barnes (London, United Kingdom)
- P4782 Can nasal-NO be used to differentiate between primary and secondary ciliary dyskinesia?  
C. Krantz, A. Malinovich, A. Hollsing, K. Alving (Uppsala, Sweden)
- P4783 Comparison of alveolar nitric oxide concentrations using two different methods for the assessment of small airways inflammation in asthma  
D. Kobayashi, Y. Tochino, H. Kanazawa, Y. Ichimaru, K. Shigenori, K. Asai, K. Hirata (Osaka City, Japan)
- P4784 Exhaled breath temperature increases at COPD exacerbation and correlates with sputum neutrophilia  
Z. Lázár, A. Bikov, G. Gálffy, M. Orosz, G. Losonczy, I. Hováth (Budapest, Hungary)
- P4785 Neutrophilic airways inflammation in lung cancer: The role of exhaled LTB-4 and IL-8  
G. E. Carpagnano, D. Lacedonia, P. Bonfitto, S. Notarangelo, M. Grimaldi, G. Ciliberti, M. P. Foschino Barbaro (Foggia, Italy)
- P4786 HPV in exhaled breath condensate of lung cancer patients  
G. E. Carpagnano, E. Costantino, D. Lacedonia, R. Decembrino, V. Turchiarelli, G. Rago, M. P. Foschino Barbaro (Foggia, Italy)
- P4787 Could exhaled ferritin and SOD be used as markers for lung cancer and prognosis prediction purposes?  
G. E. Carpagnano, A. Koutelou, A. Depalo, L. Bergantino, C. Ruggeri, D. Lacedonia, M. P. Foschino Barbaro (Foggia, Italy)
- P4788 Volatile organic compounds (VOCs) in COPD patients with exacerbation  
V. Besa, K. Darwiche, H. Teschler, U. Sommerwerck, I. Kurth, T. Rabis, J. I. Baumbach, L. Freitag (Essen, Saarbrücken, Germany)
- P4789 Targeted eicosanoid lipidomics of induced sputum as compared to exhaled breath condensate in asthmatics  
M. Sanak, L. Mastalerz, A. Gielicz, B. Sokolowska, N. Celejewska-Wójcik, A. Szczeklik (Kracow, Poland)

WEDNESDAY  
28

## WEDNESDAY SEPTEMBER 28

- P4790 Detection of *Pseudomonas aeruginosa* (*Pa*) specific peaks by ion mobility spectrometry (IMS) in exhaled breath of bronchiectasis patients  
T. Rabis, O. Anhenn, J. I. Baumbach, I. Kurth, G. Weinreich, H. Teschler, L. Freitag, K. Darwiche, U. Mellies, P. M. Rath, U. Sommerwerck (Essen, Saarbrücken, Germany)
- P4791 Metabolomic analysis of exhaled breath condensate in diagnostics of obstructive airway diseases  
T. N. Anokhina, E. K. Anaev, A. A. Rodionov, A. I. Revelsky, I. A. Revelsky, V. B. Kudriavtsev, A. G. Chuchalin (Moscow, Russian Federation)
- P4792 Discrimination of protein and peptide composition of exhaled breath condensate in patients with pulmonary disease by mass spectrometry  
A. Ryabokon, V. Kurova, E. Anaev, A. Kononikhin, K. Fedorchenko, E. Nikolaev, S. Varfolomeev (Moscow, Russian Federation)
- P4793 NMR EBC metabonomic to assess the nutraceutical effect in COPD. A pilot study of oral administration of a curcumin based herbal preparation  
G. de Laurentiis, G. Scapagnini, D. Paris, D. Melck, M. Maniscalco, A. Motta, S. Matteo, A. Bianco (Naples, Campobasso, Pozzuoli, Somma Vesuviana, Italy)
- P4794 Development of mass spectrometry approaches to quantifying lipid mediators in airway disease  
D. Balgoma, S. L. Lundström, A. Eklund, J. Grunewald, C. E. Wheelock (Stockholm, Sweden)
- P4795 Follow up of lung transplant recipients using electronic nose  
D. Kovacs, A. Bikov, J. Pako, Z. Kovats, Z. Sutto, V. Muller, G. Murakozy, G. Losonczy, I. Horvath (Budapest, Hungary)
- P4796 Profiling of sputum inflammatory mediators in asthma and chronic obstructive pulmonary disease  
M. Bafadhel, M. McCormick, S. Saha, V. Mistry, S. McKenna, P. Dodson, A. Lloyd, P. Rugman, P. Newbold (Leicester, Loughborough, Sheffield, United Kingdom)

ROOM E102

SESSION 494

08:30 - 10:30

**Poster Discussion: Pulmonary rehabilitation: looking at alternative approaches and alternative populations beyond COPD**

**Chairs: W. Man (Harefield, United Kingdom), F. Pitta (Londrina, Brazil)**

- P4797 Pulmonary rehabilitation: First line treatment for respiratory disease  
O. Reddington, A. Telford, V. Christer, G. South (Rotherham, United Kingdom)
- P4798 Effect of pulmonary rehabilitation on gas exchange, muscle cross section area and functional parameters in interstitial lung disease  
B. Menon, V. K. Vijayan, V. Bansal, B. Prajapat (New Delhi, India)
- P4799 Pulmonary rehabilitation (PR) outcomes in chronic obstructive pulmonary disease (COPD) compared with interstitial lung disease (ILD)  
V. Sandrey, S. Barr, D. Smith (Bristol, United Kingdom)
- P4800 Exercise tolerance and symptoms after standard rehabilitation in emphysema-like COPD patients  
E. Crisafulli, E. Venturelli, G. Biscione, G. Vagheggin, A. Iattoni, S. Lucic, N. Ambrosino, F. Pasqua, E. M. Clini (Pavullo, Modena, Velletri, Italy)
- P4801 Does better endurance capacity increase physical performance and work participation for patients with obstructive pulmonary disease?  
U. Pedersen, S. Skumlien (Hakadal, Norway)
- P4802 Exercise physiologic response during three different video games in cystic fibrosis patients  
T. del Corral Núñez-Flores, J. Percegon, M. Seborga, N. Trujillo, L. Hernandez, A. Rejas, W. Lalande, J. Villá, J. Vilaró (Madrid, Barcelona, Spain)
- P4803 Physical rehabilitation in asthma management  
N. Astafieva, D. Kobzev, I. Gamova, I. Perfilova, E. Udovichenko (Saratov, Russian Federation; Luzern, Switzerland)
- P4804 Obesity in COPD and the response to pulmonary rehabilitation  
C. M. Nolan, J. L. Canavan, A. L. Clark, K. A. Ingram, R. P. Fowler, P. Marns, M. I. Polkey, W. D. C. Man (Harefield, United Kingdom)
- P4805 Outpatient vs. home-based pulmonary rehabilitation in COPD: A randomized controlled trial  
J. C. Oliveira, F. S. Leitão Filho, L. Sampaio, A. C. Oliveira, R. Hirata, D. Costa, C. Donner, L. V. Oliveira (Cascavel, São Paulo, Fortaleza, Brazil; Borgomanero, Italy)
- P4806 Improvement in skeletal muscle dysfunction after twice-weekly exercise training in COPD patients  
F. Zambom, P. Cabollero, M. Hernández, E. Gorostiaga, J. Ibañez, J. Huetto, J. A. Cascante, M. M. Antón (Tudela, Pamplona, Spain)
- P4807 Interest of neuromuscular electro-stimulation (NMES) in COPD patients during an ambulatory comprehensive respiratory rehabilitation program  
D. Nguyen Dang, M. Gluck, F. Pirnay, R. Louis, M. Vanderthommen (Liege, Belgium)
- P4808 Peripheral muscle electrostimulation: Cardiovascular response in COPD patients and long term effects  
B. P. Dubé, M. Houle-Péloquin, P. Claude (Montréal, Canada)
- P4809 The effect of BiPAP on maximum exercise capacity in patients with COPD  
A. M. Moga, M. De Marchie, S. Delisle, J. Spahija (Montreal, Canada)

- P4810 Effect of ADL- training for persons with COPD: A randomized controlled trial  
F. B. Hansen, A. M. Mengshoel (Hakadal, Oslo, Norway)
- P4811 Comparison of efficacy of respiratory rehabilitation in patients with COPD and interstitial lung disease  
A. Nakazawa, T. Shinohara, E. Hagiwara, K. Tsuruta, T. Sasaki, T. Ogura, H. Takahashi (Yokohama, Japan)
- P4812 Pulmonary rehabilitation in patients with interstitial lung disease – An useful therapeutic option?  
P. Huppmann, B. Sczepanski, M. Boensch, S. Winterkamp, U. Schönheit-Kenn, C. Neurohr, J. Behr, K. Kenn (Munich, Schoenau am Koenigssee, Bochum, Germany)
- P4813 Stationary bicycle training at home in COPD patient on LTOT. Is it enough to improve quality of life and exercise capacity? A pilot study  
J. Nasilowski, T. Przybylowski, J. Zielinski, R. Chazan, P. Sliwinski, P. Bielen, E. Romanski (Warsaw, Poland)
- P4814 Pilot study of effectiveness of home rehabilitation for homebound patients with severe COPD  
D. Coultas, J. Sloan, D. Willson (Tyler, United States of America)

ROOM D201-202

SESSION 495

08:30 - 10:30

**Poster Discussion: Treating childhood asthma****Chairs: S. Pedersen (Kolding, Denmark), S. Saglani (London, United Kingdom)**

- P4815 Transparency in evidence-based pediatric asthma guidelines: GRADE and the other considerations  
N. Boluyt, B. Rottier, E. Vrijlandt, J. de Jongste (Amsterdam, Groningen, Rotterdam, The Netherlands)
- P4816 A systematic review of underlying reasons for barriers to asthma management in ethnic minority children  
D. Bird, G. Perkins, L. Culley, J. Grigg, M. Johnson, N. Johal, L. Manikam, M. McFeeters, N. Robertson, J. Wilson, M. Lakhanpaul (Leicester, London, Stoke on Trent, United Kingdom)
- P4817 Low agreement between current and long-term asthma control in children: The PACMAN cohort study  
E. Koster, J. Raaijmakers, S. Vijverberg, L. Koenderman, D. Postma, G. Koppelman, C. van der Ent, A. H. Maitland-van der Zee (Utrecht, Groningen, The Netherlands)
- P4818 Poor adherence to inhaled corticosteroids in childhood asthma: Don't blame (only) the patient  
T. Klok, A. Kaptein, E. Duiverman, P. Brand (Zwolle, Leiden, Groningen, The Netherlands)
- P4819 Lack of behavioural problems in preschool children using inhaled corticosteroids with high adherence  
W. Quak, T. Klok, P. Brand (Zwolle, The Netherlands)
- P4821 How much inhaled steroid is sufficient? Assessing the relationship between adherence rate to beclomethasone dipropionate and the level of asthma control  
P. Camargos, N. Jentsch (Divinópolis, Belo Horizonte, Brazil)
- P4822 Fluticasone propionate/formoterol fumarate (FLUT/FORM) combination therapy has comparable efficacy to fluticasone propionate/salmeterol xinafoate (FLUT/SAL) in paediatric patients with asthma  
T. McIver, A. Emeryk, R. Klink, B. Schwab (Cambridge, United Kingdom; Lublin, Poland; Laon, France; Limburg (Lahn), Germany)
- P4823 Long-term treatment with fluticasone propionate/formoterol fumarate (FLUT/FORM) combination therapy is well-tolerated and provides sustained effectiveness in paediatric patients with asthma  
T. McIver, A. Emeryk, R. Klink, B. Schwab (Cambridge, United Kingdom; Lublin, Poland; Laon, France; Limburg (Lahn), Germany)
- P4824 Salivary cortisol for assessment of hypothalamic-pituitary-adrenal (HPA) axis function in asthmatic children on inhaled corticosteroids (ICS)  
L. Tsartsali, M. Papadopoulou, E. Lagona, G. Chrousos, K. Priftis (Athens, Greece)
- P4825 The oral corticosteroid sparing effect of omalizumab in patients with severe chronic asthma: Is there a difference when you become 12 years old?  
S. Moss, M. Mckean, D. Spencer (Newcastle upon Tyne, United Kingdom)
- P4826 Safety and efficacy of omalizumab in children with allergic asthma  
J. Pitts, S. Sheikh, K. McCoy (Columbus, United States of America)
- P4827 Omalizumab in paediatric asthma: Importance of multi-disciplinary assessment to identify the eligible patients  
S. Frost, B. Lesley, Y. Lakhani, S. Rao (Birmingham, United Kingdom)
- P4828 Effect of leukotriene receptor antagonist on expression and variation of TGF-beta in T lymphocyte for mild persistent asthma in children  
W. Dong, X. Zhou, J. Hong (Shanghai, China)
- P4829 Did inappropriate delivery systems hamper therapeutic efficacy of di-sodium-cromo-glycate (DSCG)? Time for a reappraisal  
M. Keller, O. Denk, A. Bucholski, M. Knoch (Graefelfing, Germany)
- P4830 Designing a holding chamber mask using anthropometric data and CAD-simulation  
A. Söderholm Labre, S. Merk, F. Kummer, K. Behrenbruch (Starnberg, Westensee, Germany)
- P4831 Breath-by-breath delivered dose comparison from three anti-static valved holding chambers with facemasks under simulated pediatric breathing conditions  
W. Hsu, D. von Hollen, Z. Xu, T. Bai, K. Nikander, R. Dalby (Baltimore, Parsippany, United States of America)

## WEDNESDAY SEPTEMBER 28

## AUDITORIUM

## SESSION 497

10:45 - 12:45

**Symposium: Treating advanced emphysema**

**Aims:** Based on the published literature the new techniques will be described and possible clinical algorithms will be presented and discussed.

**Target audience:** Clinicians, pulmonologists, surgeons, oncologists, GPs, residents and fellows.

**Chairs:** C. Marquette (Nice, France), D. Van Raemdonck (Leuven, Belgium)

- |       |  |      |
|-------|--|------|
| 10:45 | Pharmacological lung volume reduction: how much can you achieve?<br>K. F. Rabe (Großhansdorf, Germany) | 4838 |
| 11:15 | Endoscopic lung volume reduction: does it really work?<br>D. Gompelmann (Heidelberg, Germany)          | 4839 |
| 11:45 | Lung volume reduction surgery: for whom?<br>W. Weder (Zurich, Switzerland)                             | 4840 |
| 12:15 | Lung transplantation: who benefits most?<br>M. Iversen (Copenhagen, Denmark)                           | 4841 |

## ONCOLOGY

## ROOM 7.2

## SESSION 498

10:45 - 12:45

**Symposium: Lung cancer management in the elderly**

**Aims:** At the end of the symposium, the audience will have the best knowledge of the strategies for elderly patients.

**Target audience:** Clinician, surgeons, radiotherapists and oncologists.

**Chairs:** F. Gamarra (Munich, Germany), H. Lena (Rennes, France)

- |       |  |      |
|-------|--|------|
| 10:45 | Assessing the elderly patient with lung cancer<br>H. Le Caer (Draguignan, France)                                      | 4842 |
| 11:15 | What are the specificities of radiotherapy for elderly patients?<br>P. Van Houtte (Brussels, Belgium)                  | 4843 |
| 11:45 | Medical treatment and the capacity to deliver multimodality treatment in elderly patients<br>A. Pallis (Chios, Greece) | 4844 |
| 12:15 | Surgery in older patients with lung cancer: the old but fit elderly<br>M. Paul (Amsterdam, The Netherlands)            | 4845 |

PHYSIOLOGY/  
CLINICAL

## ELICIUM 2

## SESSION 499

10:45 - 12:45

**Symposium: Obesity and the lung**

**Aims:** The aims of this symposium are to describe:

- the impact of increasing obesity on the respiratory system;
- the nutritional management of the obese patient with respiratory disease;
- interventions that may support weight reduction in the obese patient.

**Target audience:** Clinicians, physicians, thoracic surgeons, physiologists, physiotherapists and other allied health professionals.

**Chairs:** E. Clini (Modena, Italy), J. Williams (Leicester, United Kingdom),

- |       |  |      |
|-------|--|------|
| 10:45 | When obesity and COPD collide: physiological and clinical consequences<br>D. O'Donnell (Kingston, Canada)                    | 4846 |
| 11:15 | Nutritional management of the obese patient with chronic respiratory disease<br>F. Franssen (Horn, The Netherlands)          | 4847 |
| 11:45 | Rehabilitation and exercise for the obese patient with COPD<br>S. Singh (Leicester, United Kingdom)                          | 4848 |
| 12:15 | Respiratory management & outcome of superobese patients with chronic respiratory failure<br>N. Hart (London, United Kingdom) | 4849 |

PAEDIATRIC/  
CLINICAL

## ROOM 5.1

## SESSION 500

10:45 - 12:45

**Hot Topic: Exhaled biomarker profiles in paediatric respiratory disease: from bench to bedside?**

**Aims:** After this session, the participants will:

- understand the concept of integrative analysis of high-dimensional biomarker profiles;
- have an overview of the 'omics' technologies applied to exhaled air;
- appreciate the potential and feasibility of these techniques in respiratory disease in childhood.

**Target audience:** Clinicians (paediatric and adult) and scientists (academic and industrial). **Chairs:** E. Baraldi (Padova, Italy), G. Roberts (Southampton, United Kingdom)

- |       |   |      |
|-------|---|------|
| 10:45 | Use of exhaled breath condensate in childhood: challenges and pitfalls<br>G. Piacentini (Verona, Italy) | 4850 |
| 11:15 | Metabolomics: a new frontier for research in respiratory medicine<br>S. Carraro (Padova, Italy)         | 4851 |

11:45	Electronic nose and wheezing in young children P. J. Sterk (Amsterdam, The Netherlands)	4852
12:15	The role of biomarker profiles in cystic fibrosis C. Robroeks (Maastricht, The Netherlands)	4853

## ROOM 4.1

## SESSION 501

10:45 - 12:45

**Symposium: "Why are small airways important in asthma?" An ERS/World Allergy Organization joint symposium**

**Aims:** The aims of this symposium are to:

- recognise the importance of small airway in asthma;
- understand how to measure the function of small airways;
- appreciate the need to target therapies to peripheral airways.

**Target audience:** Clinicians, researchers and the pharmaceutical industry.

**Chairs:** P. J. Barnes (London, United Kingdom), L. Rosenwasser (Kansas City, United States of America)

10:45	Measuring small airway function P. Howarth (Southampton, United Kingdom)	4854
11:15	Pharmacology of small airways L. Bjermer (Lund, Sweden)	4855
11:45	Small airways in asthma M. Kraft (Durham, United States of America)	4856
12:15	Therapeutic implications N. Ten Hacken (Groningen, The Netherlands)	4857

## ELICIUM 1

## SESSION 502

10:45 - 12:45

**Oral Presentation: Clinical approach of diffuse parenchymal lung disease**

**Chairs:** T. Maher (London, United Kingdom), M. Romagnoli (Forli, Italy)

10:45	Prevalence of interstitial lung disease (ILD) in a lung cancer screening program using low-dose computer tomography (CT) M. Sánchez-Carpintero Abad, L. Seijo Maceiras, M. Ferreira, M. Uxua, A. Ana Belén, C. Aranzazu, J. P. De Torres, P. Jesús, B. Gorka, Z. F. Javier (Pamplona, Spain)	4858
11:00	Physiology is a better predictor of mortality than HRTC findings in patients with fibrotic idiopathic interstitial pneumonia F. Novelli, L. Tavanti, F. Martino, S. Cini, L. Melosini, C. Romei, F. Falaschi, S. Solfanelli, A. Celi, P. Paggiaro (Pisa, Italy)	4859
11:15	Six-minute-walk test: Desaturation index in diffuse parenchymal lung disease D. Visca, A. De Lauretis, G. Pasciuto, G. Gioffrè, S. Andrea, R. Inchingolo, F. Macagno, G. M. Corbo, S. Valente (Rome, Italy)	4860
11:30	Abnormal pulmonary arterial remodelling in patients with combined pulmonary fibrosis emphysema (CPFE) and idiopathic pulmonary fibrosis (IPF) E. Balestro, F. Lunardi, E. Rossi, N. Nannini, G. Marulli, M. Loy, F. Rea, F. Calabrese (Padova, Italy)	4861
11:45	Outcome of patients with interstitial lung disease admitted into ICU A. Vial-Dupuy, O. Sanchez, L. Guetta, B. Douvry, K. Juvin, D. Wermert, E. Guerot, D. Israel-Biet (Paris, France)	4862
12:00	The King's brief interstitial lung disease quality of life questionnaire (K-BILD) for patients with IPF and other ILDs A. S. Patel, R. Siegert, K. Brignall, S. Bhajwah, S. R. Desai, A. U. Wells, I. J. Higginson, S. S. Birring (London, United Kingdom)	4863
12:15	Demonstration of diagnostic and prognostic benefits of an interstitial lung disease (ILD) multidisciplinary team meeting L. Spencer, S. Grundy, M. Greaves, P. Bishop, A. Duck, C. Leonard (Manchester, Liverpool, United Kingdom)	4864

## FORUM

## SESSION 503

10:45 - 12:45

**Oral Presentation: COPD: integrated care and rehabilitation**

**Chairs:** J. Roca (Barcelona, Spain), A. Casa (Bogota, Colombia)

10:45	Late-breaking abstract: HR-lowering efficacy and respiratory safety of ivabradine in patients with obstructive airway disease S. Majewski, S. Slomka, E. Wyderkiewicz-Zielinska, M. Ciebiada, P. Gorski (Lodz, Poland)	4865
11:00	Late-breaking abstract: Sildenafil for chronic obstructive pulmonary disease: A randomized crossover trial D. Lederer, M. Bartels, N. Schluger, F. Brogan, P. Jellen, B. Thomashow, S. Kawut (New York, Philadelphia, United States of America)	4866

## WEDNESDAY SEPTEMBER 28

- 11:15 Assessing the impact of a chronic obstructive pulmonary disease (COPD) discharge care bundle piloted on the respiratory ward on readmission rates  
B. Mann, E. Ramhamadany, S. Wilson, L. Flores, A. Mngadi, H. Venturina, J. Lee, L. Eapen, J. Wilson, C. Ainsworth (London, United Kingdom) 4867
- 11:30 Adherence with inhaled respiratory therapeutics is associated with reduced acute exacerbations of chronic obstructive pulmonary disease  
R. Mularski, M. McBurnie, J. Donovan, K. Walker, S. Gillespie, V. William (Portland, United States of America) 4868
- 11:45 Provision of non-pharmacological treatment for COPD patients in 13 European countries: Results of the European COPD Audit  
S. Hartl, J.L. López-Campos, M. Roberts, M. Haan, R. Breyer-Kohansal, W. Jansen, N. Miculinic, N. Tzanakis, S. McCormack, J. Chorostowska, I. Solovic, F. Pozo-Rodríguez, D. Stolz, M. Polatli, S. Welham, C. Farrugia Jones, F. Mihaltan (Vienna, Austria; Seville, Madrid, Spain; London, United Kingdom; Lausanne, Basel, Switzerland; Leuven, Belgium; Zagreb, Croatia; Marsaxlo, Malta; Crete, Greece; Dublin, Ireland; Warsaw, Poland; Vysne Hagy, Slovakia; Aydin, Turkey; Bucarest, Romania) 4869
- 12:00 Integrated care intervention prevents hospitalisations for exacerbations and reduces the disease costs in COPD patients  
S. Balestracci, A. Porcu, E. Fiumalbi, M. Polselli, F. Progetto Mito, P. Rossi, A. Macuzzi, M. Moretti (Carrara, Italy) 4870
- 12:15 Establishment of an integrated clinical network and comprehensive data warehouse for the conduct of comparative effectiveness research in COPD  
R. Mularski, M. McBurnie, P. Lindenauer, S. Carson, T. Lee, D. Au, P. Crawford, V. William, J. Krishnan (Portland, Springfield, Chapel Hill, Hines, Seattle, Chicago, United States of America) 4871
- 12:30 Lack of oximeters in primary care risks increasing the mortality from COPD  
A. Davison, D. Powrie, E. Paddison (Southend on Sea, United Kingdom) 4872

## ROOM 5.2

## SESSION 504

10:45 - 12:45

## Oral Presentation: Innovative methods in clinical physiology

Chairs: A. Aliverti (Milan, Italy), S. Bayat (Amiens, France)

- 10:45 Late-breaking abstract: Lung recruitment in normal and emphysematous rats during methacholine challenge  
Z. Hantos, M. Szabari, J. Tolnai, B. Suki (Szeged, Hungary; Boston, United States of America) 4873
- 11:00 The measurement of absolute lung volume without plethysmography  
O. Adam, R. Shiner, P. Calverley, J. Solway, R. Brown, J. Fredberg (Tel Aviv, Israel; London, Liverpool, United Kingdom; Chicago, Boston, United States of America) 4874
- 11:15 Influence of end-expiratory level and tidal volume on ventilation distribution  
S. Schnidrig, C. Casaulta, A. Schibler, T. Riedel (Bern, Switzerland; Brisbane, Australia) 4875
- 11:30 K-edge subtraction (KES) synchrotron imaging allows quantitative measurement of regional aerosol deposition, lung ventilation and airway morphology in rabbit  
S. Bayat, L. Degrugilliers, L. Porra, G. Albu, H. Suhonen, S. Strengell, G. Fodor, F. Petak, P. Suortti, W. Habre, A. R. A. Sovijärvi (Amiens, Grenoble, France; Helsinki, Finland; Geneva, Switzerland; Szeged, Hungary) 4876
- 11:45 Chest wall kinematics in patients with osteogenesis imperfecta (OI)  
A. LoMauro, S. Pochintesta, G. D'Angelo, M. Romei, A. Aliverti (Milano, Bosisio Parini, Italy) 4877
- 12:00 Diaphragm fatigue in self-paced running exercise of different durations  
T. U. Wüthrich, E. C. Eberle, C. M. Spengler (Zurich, Switzerland) 4878
- 12:15 Ultrasound measurement of quadriceps wasting in patients with GOLD stage II COPD and its relationship to physical activity  
D. Shrikrishna, R. Tanner, M. Patel, A. V. J. Donaldson, C. Smith, Z. A. Puthuchear, J. M. Seymour, P. S. Sidhu, N. Hart, J. Moxham, M. I. Polkey, N. S. Hopkinson (London, United Kingdom) 4879
- 12:30 Does venous blood gas analysis provide accurate estimates of hemoglobin oxygen affinity?  
F. Huber, T. D. Latshang, J. Goede, K. E. Bloch (Zurich, Switzerland) 4880

PHYSIOLOGY

## ROOM 3.1

## SESSION 505

10:45 - 12:45

Symposium: ECMO and CO<sub>2</sub> removal in lung disease: back to the future?

Aims: The aims of this symposium are to:

- provide the pathophysiological rationale for extracorporeal lung support in different diseases;
- define the clinical conditions and diseases where these techniques are more appropriate;
- review the most recent RCTs on this topic.

Target audience: Pulmonologists, emergency medicine doctors, respiratory therapists, clinical researchers, GPs, intensivists, nurses, thoracic surgeons and trainees.

Hermes links: A1,B9,B10,B15,E1.18

Chairs: P. Pelosi (Genoa, Italy), A. Boehler (Zurich, Switzerland)

- 10:45 How to set up an ECMO and CO<sub>2</sub> removal: technical issues  
P. Falcoz (Strasbourg, France) 4881

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11:15	ECMO and CO <sub>2</sub> removal in ALI/ARDS A. Pesenti (Monza, Italy)	4882
11:45	ECMO before and after lung transplantation U. Wenger (Zurich, Switzerland)	4883
12:15	ECMO in neonatal and paediatric patients K. Palmer (Stockholm, Sweden)	4884

## BASIC

## ROOM 3.2

## SESSION 506

10:45 - 12:45

## Oral Presentation: Asthma mechanisms

Chairs: H. Renz (Marburg, Germany), I. M. Adcock (London, United Kingdom)

10:45	Degree of bronchial hyperresponsiveness (BHR) and new onset of respiratory diseases 9 years later A. Marcon, C. Janson, J. M. Antó, P. Burney, I. Cerveri, J. Heinrich, D. Jarvis, N. Kuenzli, C. Svanes, K. Toren, M. Wjst, J. P. Zock, R. de Marco (Verona, Pavia, Italy; Uppsala, Gothenburg, Sweden; Barcelona, Spain; London, United Kingdom; Munich, Germany; Basel, Switzerland; Bergen, Norway)	4885
11:00	Chronic rhinosinusitis and airway inflammation in new onset asthma in adults S. B. Nijs, C. Georgalas, E. J. M. Weersink, J. E. van den Bergh, B. van den Berg, F. H. Krouwels, P. J. Sterk, W. J. Fokkens, E. H. Bel (Amsterdam, Hoofddorp, The Netherlands)	4886
11:15	Association between airway hyperresponsiveness, obesity, and lipoproteins in a young Danish cohort F. Rasmussen, N. Parameswaran, M. Nybo, B. Hancox (Lefcosa, Turkey; Hamilton, Canada; Dunedin, New Zealand; Odense, Denmark)	4887
11:30	Effect of vitamin D treatment on antimicrobial peptides in asthma patients and healthy controls W. Thijs, K. Janssen, R. M. Verhoosel, S. E. Papapoulos, S. Le Cessie, S. Middeldorp, C. F. Melissant, K. F. Rabe, P. S. Hiemstra (Leiden, Amsterdam, Hoofddorp, The Netherlands; Grosshansdorf, Germany)	4888
11:45	Chemokine and their receptors mRNA expression in brush-biopsies of nasopharynx in bronchial asthma patients K. Sysoev, A. Bibkova, V. Trofimov, A. Totolian (Saint-Petersburg, Russian Federation)	4889
12:00	microRNA levels in nasal biopsies in allergic and non-allergic rhinitis and asthma H. Suojalehto, M. L. Majuri, E. Toskala, M. Kilpeläinen, H. Alenius (Helsinki, Turku, Finland)	4890
12:15	The toll-like receptor (TLR) 5 ligand, flagellin, promotes asthma by priming allergic responses to indoor allergens S. Maruoka, R. Wilson, G. Whitehead, J. Foley, G. Flake, M. Sever, D. Zeldin, M. Kraft, S. Garantziotis, S. Hashimoto, H. Nakano, D. Cook (Research Triangle Park, Durham, United States of America; Tokyo, Japan)	4891
12:30	Rapamycin inhibits IL-33-induced airway inflammation A. Mirchandani, R. Salmond, F. Liew (Glasgow, United Kingdom)	4892

## INFECTION

## ROOM 4.2

## SESSION 507

10:45 - 12:45

## Oral Presentation: Tuberculosis in special populations

Chairs: R. Duarte (Vila Nova De Gaia, Portugal), G. Bothamley (London, United Kingdom)

10:45	Keynote lecture: Tackling tuberculosis in children. Towards a tuberculosis-free generation in Europe A. Sandgren (Stockholm, Sweden)	4893
11:00	Impact of African immigration on drug resistance to <i>Mycobacterium tuberculosis</i> in Portugal C. Gaspar, C. Gomes, N. Diogo (Lisbon, Portugal)	4894
11:15	Double impact: Difficulties in treating patients with liver diseases from tuberculosis H. Makhoul, N. Makhoul, M. Metwally, H. A. Rashed (Assiut, Egypt)	4895
11:30	Hepatitis C virus infection among tuberculosis patients in Sohag Governorate: Seroprevalence and associated risk factors M. Badawy, M. Taha, L. Mohamed, A. Fathy (Sohag, Egypt)	4896
11:45	Detection of active TB among people living with HIV/AIDS and vulnerable population groups (commercial sex workers and injecting drug users) A. Solovyova, A. Golubkov, E. Borzunova, A. Chernov (Tomsk, Russian Federation; Boston, United States of America)	4897
12:00	Tuberculosis screening among intravenous drug users (IDU) in Georgia N. Kiria, M. Gegia, I. Kalandadze (Tbilisi, Georgia)	4898
12:15	Managing tuberculosis in chronic kidney disease: An evaluation of patient treatment regimens A. Riding, P. Palchadhuri, P. Begum, M. Ostermann, H. Milburn (London, United Kingdom)	4899
12:30	Prednisolone treatment does affect the performance of the QuantiFERON in-tube test and the tuberculin skin test in patients with autoimmune disorders screened for latent tuberculosis E. Belard, S. Semb, M. Ruhwald, A. M. Werlinrud, B. Søborg, F. K. Jensen, H. Thomsen, A. Brylov, M. L. Hetland, I. Nordgaard-Lasen, I. Nordgaard-Lasen, P. Ravn (Hvidovre, Herlev, Amager, Denmark)	4900

WEDNESDAY  
28

## WEDNESDAY SEPTEMBER 28

EMERALD

SESSION 508

10:45 - 12:45

## Oral Presentation: Novel mechanisms in COPD

Chairs: T. Mauad (São Paulo, Brazil), J. Quint (London, United Kingdom)

- 10:45 Results of a phase 2a clinical trial with a peptide inhibitor of MARCKS protein indicate improvement of indices of bronchitis and lung function in patients with COPD  
K. Adler, M. Kraft, I. Parikh, E. Murphy, A. Van As (Raleigh, Durham, Philadelphia, United States of America) 4901
- 11:00 Discrimination of expanded dendritic cell populations in lung tissues from COPD patients  
M. Mori, C. Andersson, A. Bergqvist, C. Van Hove, C. G. Löfdahl, J. Erjefält (Lund, Sweden) 4902
- 11:15 Mechanisms of tertiary lymphoid organ formation during lymphoid neogenesis are involved in lymphoid follicle formation in chronic obstructive pulmonary disease  
M. Tsoumakidou, E. Litsiou, K. Tsoutsas, P. Kara, D. Rontogianni, C. Zisis, I. Belenis, S. Zakyntinos (Athens, Greece) 4903
- 11:30 Late endothelial progenitor cells are senescent and dysfunctional in COPD due to reduced sirtuin-1 levels  
K. Paschalaki, R. D. Starke, N. Mercado, A. M. Randi, P. J. Barnes (London, United Kingdom) 4904
- 11:45 Cigarette smoke-induced oxidative modification of creatine kinase B (CKB) is involved in the pathogenesis of COPD in terms of acceleration of bronchial epithelial cell senescence  
H. Hara, J. Araya, N. Takasaka, J. Kojima, Y. Yumino, S. Fujii, T. Numata, M. Kawaiishi, J. Hirano, M. Odaka, T. Morikawa, K. Nakayama, K. Kuwano (Tokyo, Japan) 4905
- 12:00 Up-regulation of decoy receptor D6 in COPD  
E. Bazzan, G. Turato, S. Baraldo, A. Ballarin, F. Calabrese, E. Balestro, B. Savino, C. Cancellieri, R. Bonecchi, M. Locati, A. Papi, M. Cosio, A. Mantovani, M. Saetta (Padova, Rozzano-Milan, Ferrara, Italy; Montreal, Canada) 4906
- 12:15 Serum amyloid A augments mucosal immunity by opposing resolving lipoxinA4 signaling in chronic lung disease  
S. Bozinovski, M. Uddin, R. Vlahos, M. Thompson, A. S. Merritt, P. Wark, A. Hutchinson, L. Irving, B. Levy, G. Anderson (Parkville, Newcastle, Australia; Boston, United States of America) 4907
- 12:30 Insufficient autophagy is involved in accelerated cellular senescence in the pathophysiology of COPD  
S. Fujii, H. Hara, J. Araya, N. Takasaka, Y. Yumino, J. Kojima, T. Ishikawa, T. Numata, M. Kawaiishi, J. Hirano, M. Odaka, T. Morikawa, K. Nakayama, K. Kuwano (Tokyo, Japan) 4908

ROOM D203-204

SESSION 509

10:45 - 12:45

## Oral Presentation: Clinical features of human pulmonary hypertension

Chairs: M. Johnson (Clydebank, United Kingdom), K. Sheares (Cambridge, United Kingdom)

- 10:45 Late-breaking abstract: Demographic trends and changes in long term outcome of *incident* idiopathic, heritable and anorexigen-associated pulmonary arterial hypertension between 2001 to 2009. Results from the Pulmonary Hypertension Registry of the United Kingdom and Ireland  
Y. Ling, M. Johnson, D. Kiely, R. Condliffe, C. Elliot, S. Gibbs, L. Howard, J. Pepke-Zaba, K. Sheares, P. Corris, A. Fisher, J. Lordan, S. Gaine, G. Coghlan, J. Wort, M. Gatzoulis, A. Peacock (Clydebank, Sheffield, London, Papworth, Newcastle, United Kingdom; Dublin, Ireland) 4909
- 11:00 Right ventricular (RV) remodelling in PAH: Impact of RV mass/volume ratio on survival  
C. D. Vizza, R. Badagliacca, R. Poscia, M. Francone, S. Marcon, C. Gambardella, S. Papa, I. Iacucci, B. Pezzuto, A. Nona, F. Fedele (Rome, Italy) 4910
- 11:15 Pulmonary arterial hypertension in patients with chronic kidney disease on dialysis and without dialysis: Results of the PEPPER-study  
S. Pabst, C. Hammerstingl, F. Hundt, T. Gerhardt, C. Grohé, G. Nickenig, R. Woitas, D. Skowasch (Bonn, Berlin, Germany) 4911
- 11:30 Left atrial volume to distinguish idiopathic pulmonary arterial hypertension from pulmonary hypertension due to left heart disease  
S. Crawley, M. Johnson, A. Peacock (Glasgow, United Kingdom) 4912
- 11:45 The changing picture of patients with pulmonary arterial hypertension (PAH) in France  
O. Sitbon, A. Yaïci, L. Rottat, V. Cottin, E. Bergot, G. Prévot, V. Gressin, M. Humbert, G. Simonneau (Clamart, Lyon, Caen, Toulouse, Paris, France) 4913
- 12:00 A genome wide DNA microsatellite association study of Japanese patients with high altitude pulmonary edema  
N. Kobayashi, M. Ota, M. Hanaoka, Y. Droma, M. Ito, Y. Katsuyama, H. Asamura, K. Kubo (Matsumoto, Japan) 4914
- 12:15 Predicting survival in pulmonary hypertension in the United Kingdom: Comparison of prognostic equations  
W. T. N. Lee, Y. Ling, K. Sheares, J. Pepke-Zaba, A. Peacock, M. Johnson (Glasgow, Cambridge, United Kingdom) 4915
- 12:30 Genetic counselling in pulmonary arterial hypertension: Experience from the French referral centre  
B. Girerd, D. Montani, A. Yaïci, M. Eyries, L. Savale, B. Sztrymf, X. Jaïs, F. Coulet, F. Soubrier, O. Sitbon, G. Simonneau, M. Humbert (Clamart, Paris, France) 4916

ROOM G102-103

SESSION 510

10:45 - 12:45

**Poster Discussion: Asthma: improving diagnosis and management for reaching better control****Chairs: P. Kauppi (Vantaa, Finland), G. Garcia (Clamart, France)**

- P4917 Including variability as a criteria, increases diagnostic accuracy in elite asthmatic swimmers after mannitol and exercise challenge  
K. Romberg, E. Tufvesson, L. Bjermer (Lund, Höllviken, Sweden)
- P4918 Asthma severity and duration influence to fetoplacental circulation  
O. Lavrova, M. Petrova, E. Shapovalova (Saint-Petersburg, Russian Federation)
- P4919 Genetic characterization of the association between asthma and obesity. Relationship with severity and asthma control  
Z. Stojanovic, A. Crespo, J. Roldan, V. Plaza, S. Ragull, J. A. Lloret, G. Casolivas, A. Reig, J. Morera Prat, C. Martinez Rivera (Badalona, Barcelona, Salt, Bar, Viladecans, Spain)
- P4920 The findings of pulmonary function test after cessation of controller therapy in asthma patients  
M. Ohmichi, Y. Niinuma (Sapporo, Japan)
- P4921 Prevalence depression – Anxiety and impact on quality of life, asthma control and asthma severity in adult patients with asthma  
A. Altintop, H. Karakus, Z. Aytemur, S. Hacievliyagil, H. Ermis, M. Erdinc (Malatya, Izmir, Turkey)
- P4922 Ways of coping with asthma in everyday life: Validation of the Portuguese version  
S. Martins, M. R. Simões, J. A. Fonseca, L. Fernandes (Coimbra, Porto, Portugal)
- P4923 Asthma and metabolic syndrome  
M. A. Martinez Cortizas, C. Artana, P. Pascale, S. Alvarez, M. Pereiro (Avellaneda, Argentina)
- P4924 Risk factors associated with poor asthma control and quality of life in severe Spanish asthmatics  
M. C. Vennera, C. Picado, L. Herraes, J. Galera, J. Casafont, on behalf of the CONTROL Study Group (Barcelona, Spain)
- P4925 Anxiety and depression in patients with asthma  
J. De Miguel, V. Hernandez Barrera, T. Gomez Garcia, M. P. Carrasco Garrido, M. C. Juarez Morales, L. Puente Maestu, J. Hernandez Fernandez, R. Jimenez Garcia (Madrid, Alcorcon, Madrid, Spain)
- P4926 Increased prevalence of airway hyperresponsiveness in severely obese women: Preliminary results  
M. Essalhi, F. Gillaizeau, B. Chevalier-Bidaud, B. Mahut, C. Delclaux (Paris, France)
- P4927 Are there lower blood CO<sub>2</sub>-levels in asthmatic patients?  
S. Ernst, J. D. Leuppi, P. N. Chhajed, D. Miedinger (Basel, Switzerland)
- P4928 Effect of BMI on asthma control, asthma severity and quality of life in adult patients with asthma  
A. Altintop, H. Karakus, Z. Aytemur, S. Hacievliyagil, H. Ermis, M. Erdinc (Malatya, Izmir, Turkey)
- P4929 Controlled asthma in atopic and non atopic patients: Is needed a different approach?  
A. Petroianni, V. Conti, V. Giunta, M. Lagalla, M. Lilli, A. Castagnacci, A. Bevilacqua, S. K. Kalil, C. Terzano (Rome, Italy)
- P4930 Asthma at treated patients correlations between treatment, level of control and exacerbations in a pneumology department  
D. Dimitriu, C. Ardelean, S. Frent, V. Tudorache, I. Marincu, S. Mihaicuta (Timisoara, Romania)
- P4931 Phenotypic differences between asymptomatic airway hyperresponsiveness and remission of asthma  
T. Yoshikawa, H. Kanazawa, K. Hirata (Osaka, Japan)
- P4932 Evaluation of asthma knowledge and quality of life in adult patients with asthma  
G. Przybylski, A. Dabrowska, A. Gadzinska, M. Pyskir, H. Trzcinska (Bydgoszcz, Poland)
- P4933 Adult-onset asthma: Risk factors  
T. Gomez Garcia, J. De Miguel Díez, R. Pelta Fernández, M. Juarez Morales, L. Moran Caicedo, V. Sanz de Burgoa, J. Hernandez Fernandez (Madrid, Spain)

WEDNESDAY  
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ROOM G104-105

SESSION 511

10:45 - 12:45

**Poster Discussion: The work environment in the clinic****Chairs: J. Rooijackers (Beuningen, The Netherlands), D. Fishwick (Sheffield, United Kingdom)**

- P4934 Medical triage for early detection of silicosis in a ceramic tile production plant  
E. Stigter, J. Rooijackers, R. Houba, D. Heederik (Utrecht, The Netherlands)
- P4935 Chest CT screening of asbestos exposed workers in the Arsenal of Brest: Prevalence of asbestos related abnormalities, and incidental findings  
A. Pégorié, N. Paleiron, T. Erauso, C. Tromeur, S. Herry, Y. Bec, B. Bouard, F. Grassin, M. André (Brest, France)
- P4936 Asthma and exposure to quaternary ammonium compounds in healthcare settings  
M. Gonzalez, M. C. Kopferschmitt, C. Donnay, G. Hedelin, M. Velten, A. Cantineau, F. de Blay (Strasbourg, France)

## WEDNESDAY SEPTEMBER 28

- P4937 Work-exacerbated rhinitis among bakers – Is it a problem?  
J. Walusiak-Skorupa, M. Wiszniewska, A. Lipinska-Ojrzanowska, E. Nowakowska-Swirta, P. Krawczyk-Szulc, C. Palczynski (Lodz, Poland)
- P4938 Diagnostics and frequency of work-exacerbated asthma among bakers  
M. Wiszniewska, A. Lipinska-Ojrzanowska, E. Nowakowska-Swirta, P. Krawczyk-Szulc, C. Palczynski, J. Walusiak-Skorupa (Lodz, Poland)
- P4939 Diagnosis of occupational asthma from serial plots of PEF; first year results of open access to the Oasys internet database  
C. B. S. G. Burge, P. S. Burge, J. Harvey, R. Barraclough, J. Hoyle, C. Paris, T. Thilising (Birmingham, Manchester, United Kingdom; Odense, Denmark; Nancy, France)
- P4940 COPD and its impact on ability to continue to work  
M. Fletcher, H. Albrow, S. Walker (Warwick, United Kingdom)
- P4941 A systematic review of serial peak expiratory flow measurements in the diagnosis of occupational asthma  
V. Moore, M. Jaakkola, S. Burge (Birmingham, United Kingdom; Oulu, Finland)
- P4942 FEV<sub>1</sub> decline and eosinophilia in occupational asthma  
D. Talini, F. Novelli, E. Bacci, M. L. Bartoli, S. Cianchetti, F. L. Dente, A. Di Franco, L. Melosini, P. Paggiaro (Pisa, Italy)
- P4943 Pulmonary toxicity in car spray painters  
I. Ibrahim, A. El-Ebiary, A. Abuelfadl, E. El-Maddah, S. El-Shourbagy (Tanta, Egypt)
- P4944 Is diurnal PEF variation sensitive and specific for the diagnosis of occupational asthma?  
V. Moore, M. Jaakkola, C. Burge, A. Robertson, C. Pantin, S. Burge (Birmingham, Stoke-on-Trent, United Kingdom; Oulu, Finland)
- P4945 Airway symptoms and lung function among male workers in the aftermath of an oil tank explosion  
J. T. Granslo, B. E. Hollund, A. Irgens, M. Bråtveit, C. Svanes, B. E. Moen (Bergen, Norway)
- P4946 Is FEV<sub>1</sub> better than PEF at detecting asthmatic changes in diurnal variation?  
K. A. Dennis, V. Moore, C. Burge, S. Burge (Birmingham, United Kingdom)
- P4947 A quantitative European study to investigate the impact of asthma triggers on the lives of asthma patients  
P. Dale, E. Elder, G. Newbold, N. Vyas, S. O'Regan, K. R. Chapman, D. Price (Stockley Park, Wallington, Oxford, Aberdeen, United Kingdom; Stockley Park, United States of America; Toronto, Canada)
- P4948 Occupational asthma in two healthcare workers due to an alcohol hand gel  
A. Robertson, V. Moore, C. Burge, M. Wong, S. Burge (Birmingham, United Kingdom)
- P4949 Peak expiratory flow monitoring – Optimal criterion for diagnosis of professional asthma?  
L. Legath, S. Percinsky, J. Labus, M. Varga, M. Orolin (Kosice, Slovakia)
- P4950 Massive acute gases intoxication: Clinical presentation and outcomes  
M. Sánchez-Carpintero Abad, A. B. Alcaide, A. Campo, J. Zagaceta, F. Lucena, M. Landecho, F. Alegre, L. Seijo, J. P. de Torres, J. Zulueta (Pamplona, Spain)

ROOM G106-107

SESSION 512

10:45 - 12:45

Poster Discussion: Obstructive sleep apnoea : physiology, diagnostic tools and technology

Chairs: R. Farré (Barcelona, Spain), P. Jennum (Glostrup, Denmark)

- P4951 Effect of chronic intermittent hypoxia on rat genioglossus  
X. Zhang, Q. Li (Nanjing, China)
- P4952 CPAP therapy withdrawal – A model to evaluate treatments for OSA  
M. Kohler, A. C. Stoewhas, K. E. Bloch, E. W. Russi, J. R. Stradling (Zurich, Switzerland; Oxford, United Kingdom)
- P4953 The effect of interleukin-1 $\beta$  on lung ventilation and central CO<sub>2</sub> chemoreception  
N. P. Aleksandrova, G. A. Danilova (Saint-Petersburg, Russian Federation)
- P4954 Didgeridoo may lower apnea hypopnea index through reducing parapharyngeal fat pads  
A. Turk, A. Zuercher, F. Zahn, T. Frauenfelder, M. Puhan (Wald, Zurich, Switzerland)
- P4955 Improvement in obstructive sleep apnoea features under targeted hypoglossal neurostimulation is independent from body mass index and collar size  
D. Rodenstein, B. Mwenge, M. Dury, B. Lengele, P. Rombaux (Brussels, Belgium)
- P4956 Supine position dependency in obstructive sleep apnea  
S. Firat Guven, B. Ciftci, T. Ulukavak Ciftci (Ankara, Turkey)
- P4957 Berlin questionnaire performance for detecting sleep apnea in the general population  
R. Heinzer, D. Andries, F. Bastardot, N. Tobback, P. Vollenweider, M. Tafti, J. Haba-Rubio (Lausanne, Switzerland)
- P4958 STOP-BANG score as a screening tool for obstructive sleep apnea in the general population  
R. Heinzer, D. Andries, F. Bastardot, N. Tobback, P. Vollenweider, M. Tafti, J. Haba-Rubio (Lausanne, Switzerland)
- P4959 AutoCPAP devices accurately identify obstructive sleep apnea patients with residual apnea during treatment  
L. Hess, T. D. Latshang, M. Kohler, C. M. Lo Cascio, R. Thurnheer, K. E. Bloch (Zurich, Switzerland)
- P4960 Neural network model for estimating the apnoea-hypopnea index from nocturnal oxygen saturation  
F. del Campo, R. Hornero, D. Alvarez, J. V. Marcos (Valladolid, Spain)

- P4961 A clinical score to predict polysomnographic (PSG) results in paediatric sleep disordered breathing (SDB)  
M. C. Paolino, R. Castaldo, F. Ianniello, L. Papini, F. Biagiarelli, M. Del Pozzo, M. P. Villa (Rome, Italy)
- P4962 Reducing investigation time for the diagnosis of the obstructive sleep apnoea syndrome (OSAS) by combining oximetry with a screening algorithm  
J. Benjamin, R. Chaube, C. Narendra (Llantrisant, United Kingdom)
- P4963 Epworth sleepiness scale ratings – What does “in recent times” mean?  
W. Cassel, T. Ploch, A. Jerrentrup, S. Canisius, V. Claus (Marburg, Germany)
- P4964 Diagnostic performance of the non-contacting device SleepMinder in diagnosis of sleep apnea  
G. Weinreich, P. de Chazal, Y. Wang, H. Teschler (Essen, Germany; Dublin, Ireland)
- P4965 Acoustic respiratory monitoring (ARM) as an adjunct to polysomnography (PSG) in a sleep laboratory  
J. M. Goldin, P. Dionysopoulos, N. Kohli, L. Irving, S. Godfrey, N. Gavriely (Parkville, Australia; Haifa, Israel)
- P4966 A new method to determine the site of upper airway obstruction using sleep induced endoscopy in patients with obstructive sleep apnea  
M. G. Gregorio, M. Jacomelli, N. Danzi-Soares, F. Schorr, P. R. Genta, G. Lorenzi-Filho (São Paulo, Brazil)
- P4967 Interpretation of central and obstructive apnea event type varies widely between scorers: An observational study  
A. Thornton, P. Singh, W. Ruehland, P. Rochford (Adelaide, Heidelberg, Australia)
- P4968 Prediction of cardiovascular risk from nocturnal pulse wave signal – Results from the ASIC multi center study  
L. Grote, D. Sommermeyer, D. Zou, D. N. Eder, J. Hedner, J. Ficker, W. Randerath, T. Penzel, B. Sanner (Gothenburg, Sweden; Karlsruhe, Nuremberg, Solingen, Berlin, Wuppertal, Germany)

ROOM E104-106

SESSION 513

10:45 - 12:45

**Poster Discussion: Tuberculosis in pregnancy and childhood****Chairs: E. Huitric (Stockholm, Sweden), C. Herzmann (Borstel, Germany)**

- P4969 A case-control study of the risk of adverse peri-natal outcomes due to tuberculosis during pregnancy  
B. Asuquo, A. Vellore, G. Walters, H. Kunst (Woolwich, Birmingham, United Kingdom)
- P4970 Pregnancy: A risk for developing tuberculosis? A national cohort and self-controlled case series study using UK primary care data  
D. Zenner, M. Kruijshaar, N. Andrews, I. Abubakar (London, United Kingdom)
- P4971 Knowledge and attitudes about tuberculosis among non-medical students in University of Novi Sad, Serbia  
M. Ilic, M. Tomic, V. Kuruc, S. Pavlovic, S. Kasikovic-Lecic, I. Kopitovic, S. Milutinov (Sremska Kamenica, Novi Sad, Republic of Serbia)
- P4972 Evaluation of tuberculosis diagnostic criteria in children  
S. Khalilzadeh, M. Hassanzad, N. Baghaie, M. R. Boloorsaz, A. A. Velayati (Tehran, Islamic Republic of Iran)
- P4973 Neonatal tuberculosis and cardiac inflammatory myofibroblastic tumor presenting as supraventricular tachycardia: A rarity of kinds  
M. N. Banque (Quezon City, Philippines)
- P4974 Clinical and epidemiological patterns of pediatric patients with mycobacterial disease at the TB reference centre in Milan  
T. Repossi, M. Delmastro, M. Ferrarese, R. Lipreri, G. Ferrara, L. Codecasa (Milan, Terni, Italy)
- P4975 Child's tuberculosis and the socioeconomic environment  
D. S. Alexandrescu, E. Barbu, F. Dogariu, M. A. Man, B. Ratiu-Duma (Brasov, Cluj, Romania)
- P4976 Problems with poor study adherence in a tuberculosis research project in children in Tanzania  
T. N. Nissen, M. V. Rose, G. Kimaro, S. G. Mfinanga, P. Ravn (Hvidovre, Herlev, Denmark; Dar es Salaam, Tanzania, United Republic of)
- P4977 Serial interferon-gamma release assay in children younger than 5 years with latent tuberculosis infection  
I. Pavic, N. Nenadic, B. Kristic-Kirin, R. Zrinski Topic, I. Zoricic-Letoja, S. Dodig (Zagreb, Croatia)
- P4978 A comparison of QuantiFERON-TB Gold In-Tube test and new QuantiFERON-Microtube assay in children suspect of active TB and adults with active TB  
M. V. Rose, I. Kroidl, M. Hoelscher, G. Mfinanga, P. Ravn (Copenhagen, Herlev, Denmark; Mbeya, Dar es Salam, Tanzania, United Republic of; Munich, Germany)
- P4979 Contact tracing among the classmates of a 15 year old smear negative pulmonary tuberculosis  
N. Baghaie, S. Khalilzadeh, M. R. Boloorsaz, N. Parsanejad (Tehran, Islamic Republic of Iran)
- P4980 Interferon-gamma release assays (IGRA) for latent tuberculosis infection (LTBI) in children  
R. Ahmed, D. Gascoyne-Binzi, S. Moffitt, T. Collyns, J. Watson (Leeds, United Kingdom)
- P4981 Evaluation of QuantiFERON-TB Gold Assay in detecting latent and active infection with *Mycobacterium tuberculosis* in group of Egyptian children  
M. Ghanem, N. Refaat, H. Rashed (Assiut, Egypt)
- P4982 Diagnostics of the latent TBC infection (LTBI) activity in children  
N. Stavitskaya, A. Doroschenkova, R. Khanferyan (Krasnodar, Russian Federation)
- P4983 Tuberculosis detection in children and adolescents using diagnostic testing based on tuberculosis recombinant protein E SAT6-CFP10 (diaskintest)  
L. Slogotskaya, E. Ovsyankina, V. Litvinov, Y. Kochetkov, P. Seltsovsky, O. Senchikhina, L. Stakheeva, D. Koudlay (Moscow, Russian Federation)

INFECTION/  
PAEDIATRICWEDNESDAY  
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## WEDNESDAY SEPTEMBER 28

- P4984 Diagnostic value of non-specific humoral immune changes in children investigated for tuberculosis by skin test and bacteriology  
M. Spinu, C. M. Pop, C. D. Sandru, D. Cadar, M. Niculae, P. Bolfa (Cluj-Napoca, Romania)
- P4985 Adenosine deaminase activity in bronchoalveolar lavage, induced sputum, gastric lavage and serum in childhood pulmonary tuberculosis  
M. Farid, M. EL Seify, T. Deraz, E. Fouda, M. Fathy, M. Abd Al Azziz, H. El-Bawab (Cairo, Egypt)

## ROOM E102

## SESSION 514

10:45 - 12:45

## Poster Discussion: Integrated care and telehealth in primary care

Chairs: J. Kocks (Groningen, The Netherlands), K. Lisspers (Gagnef, Sweden)

- P4986 Perspectives of patients and healthcare professionals on the impact of telemedicine on hospital admissions for chronic obstructive pulmonary disease (COPD): A nested qualitative study  
P. Fairbrother, H. Pinnock, J. Hanley, L. McCloughan, A. Todd, B. McKinstry (Edinburgh, United Kingdom)
- P4987 Electronic patient record as a facilitator to guideline based asthma management  
J. Holohan, L. Coyne, F. Guiney, P. Manning, B. Elnazir, E. Shanahan, T. O'Connor, M. Ni Chroinin, N. Williams, R. Forsythe, P. Logan (Dublin, Mullingar, Tallaght, Killarney, Grenville Place, Wilton, Ireland)
- P4988 The effect of integrated care on asthma control  
M. Prinsen, E. Van Heijst, S. Schokker, C. de Jong, R. Riemersma, J. Kocks, T. van der Molen (Groningen, The Netherlands)
- P4989 Telespirometry in the Netherlands  
C. F. Melissant, J. Hoevenaars (Hoofddorp, Amstelveen, The Netherlands)
- P4990 RECODE: RCT on effectiveness of integrated COPD management in primary care  
A. Kruis, M. Boland, P. Assendelft, J. Gussekloo, A. Tsiachristas, M. Rutten, J. Sont, N. Chavannes (Leiden, Rotterdam, The Netherlands)
- P4991 Diagnosing COPD and asthma in primary care in Israel – The challenge and the change  
E. Brodsky, S. Ringel, M. Raz (Tel Aviv, Israel)
- P4992 Successful implementation of asthma guidelines in Thailand: The Easy Asthma Clinic model  
W. Boonsawat (Khon Kaen, Thailand)
- P4993 The effect of integrated care on health status in COPD  
M. Prinsen, E. Van Heijst, S. Schokker, C. de Jong, R. Riemersma, J. Kocks, T. van der Molen (Groningen, The Netherlands)
- P4994 Healthcare professional attitudes towards asthma guidelines in primary care  
J. Holohan, L. Coyne, F. Guiney, P. Manning, B. Elnazir, E. Shanahan, T. O'Connor, M. Ni Chroinin, N. Williams, R. Forsythe, P. Logan (Dublin, Mullingar, Tallaght, Killarney, Grenville Place, Wilton, Ireland)
- P4995 Clinical decision support system for diagnosing patients with community-acquired pneumonia  
S. Hanada, H. Uruga, H. Takaya, A. Miyamoto, H. Sugimoto, N. Morokawa, A. Kurosaki, K. Kishi, S. Kanada, A. Osawa (Minato-ku, Japan)
- P4996 Asthma self management preferences, attitudes and beliefs in primary care  
M. George, J. Kraft, N. Vendetti, R. Pinilla, A. Johnson, C. Priolo, R. Gonzalez, E. Yim, D. Jackson, D. Brown, C. Rand (Philadelphia, Miami, Washington, Baltimore, United States of America)
- P4997 Improving asthma control with therapeutic education intervention  
L. Fernandes, A. Mesquita (St. Inez, Caranzalem, India)
- P4998 COPD patient and caregiver assessments of care transition quality  
D. Goodridge, S. Hutchinson, D. Marciniuk, D. Rennie (Saskatoon, Canada)
- P4999 Respiriologists' perception versus patient reality: A Canadian perspective on COPD  
S. L. Walker, M. S. Balter, J. Bourbeau, C. K. Chan, P. Hernandez, D. D. Marciniuk (Vancouver, Toronto, Montreal, Halifax, Saskatoon, Canada)

## ROOM D201-202

## SESSION 515

10:45 - 12:45

## Poster Discussion: Mechanical ventilation and weaning

Chairs: T. Vassilakopoulos (Athens, Greece), J. Steier (London, United Kingdom)

- P5000 Time course of diaphragm function recovery after mechanical ventilation in an animal model  
D. Thomas, K. Maes, A. Agten, M. Decramer, ERS President 2011, G. Gayan-Ramirez (Leuven, Belgium)
- P5001 Mechanical ventilation induces a time-dependent reduction in diaphragmatic blood flow  
C. Bruells, R. Davis III, J. Stabely, B. Behnke (Aachen, Germany; Gainesville, United States of America)
- P5002 High dose methylprednisolone counteracts the negative effect of rocuronium on diaphragm function in a rat model of mechanical ventilation  
K. Maes, D. Testelmans, D. Thomas, M. Decramer, ERS President 2011, G. Gayan-Ramirez (Leuven, Belgium)
- P5003 Severe metabolic acidosis in chronically ventilated Duchenne muscular dystrophy patients  
C. M. Lo Cascio, T. D. Latshang, M. Kohler, T. Feher, K. E. Bloch (Zurich, Switzerland)

- P5004 Predictors of successful weaning from mechanical ventilation  
H. A. M. Mahmoud, A. Z. A. Mohamad (Sohag-Elmaragha-Nagee Elhakim, Assuit, Egypt)
- P5005 Neurally adjusted ventilatory assist (NAVA) in difficult-to wean patients  
G. Vaghegghini, S. Mazzoleni, R. Esposito, M. C. Carrozza, N. Ambrosino (Volterra, Pisa, Italy)
- P5006 Predicting the outcome from noninvasive ventilation for acute exacerbation of chronic obstructive pulmonary disease in the emergency department  
R. Ferrari, E. Chili, F. Giostra, M. Zanello, M. Cavazza (Bologna, Italy)
- P5007 Acute exacerbations of COPD (AECOPD) in intensive care unit (ICU): Are non-invasive ventilation (NIV) use and mortality different in high volume ICUs?  
M. Dres, T. C. Tran, P. Aegerter, A. Rabbat, B. Guidet, G. Huchon, N. Roche, on behalf of the CUB-REA Network (Paris, Boulogne Billancourt, France)
- P5008 Low-t3 state a crucial biomarker in determining NIV failure and outcome in pulmonary patient?  
E. Scoscia, S. Baglioni, E. Fiandra, M. Dottorini, O. Penza (Perugia, Italy)
- P5009 Evaluation of adrenal function in patients receiving invasive and noninvasive mechanical ventilation  
Z. Y. Dagli, T. Teke, E. Maden, A. Kiyici, K. Uzun (Konya, Turkey)
- P5010 A novel way of heliox administration in patients with COPD exacerbation  
R. Zazula, K. Roubik, T. Tyll, M. Müller, V. Zabrodsky, J. Chlumsky, A. Strnadova, A. Spaleny, P. Stastny (Prague, Kladno, Czech Republic)
- P5011 Sleep monitoring with portable devices in ICU patients  
S. Namba, Y. Ujike, T. Ikegami, I. Shimoyama, P. A. Easton (Okayama-City, Kurashiki-City, Chiba-City, Japan; Calgary, Canada)
- P5012 Sleep quality in prolonged mechanical ventilation patients  
D. Siopi, E. Galiatsou, E. Nena, M. Antoniadou, E. Serasli, V. Michailidis, D. Matamis, V. Tsara (Thessaloniki, Ioannina, Greece)
- P5013 Swallowing disorders and speech rehabilitation in tracheostomized difficult-to-wean patients  
G. Vaghegghini, A. Di Paco, G. Pullarà, A. Bartolini, M. Orlandini, E. Panait Vlad, N. Ambrosino (Volterra, Italy)
- P5014 Review of decannulation experience and duration of tracheostomy within the Newcastle upon Tyne Hospitals NHS Foundation Trust  
J. Nicholas, C. O'Brien (Newcastle upon Tyne, United Kingdom)
- P5015 Prognostic factors for long-term survival in ICU tracheostomized patients  
D. Basille, E. Magois, C. Andrejak, V. Jounieaux (Amiens, France)
- P5016 The effect of magnesium sulphate on intubating conditions and hemodynamics during rapid sequence intubation using alfentanil, propofol and rocuronium  
H. Na, M. Kim, J. Hwang, S. Do (Seongnam, Republic of Korea)
- P5017 Assessment of rapid shallow breathing index as a predictor for weaning in respiratory care unit  
A. Fadaei, H. Sohrabpour, S. Sadat Amini, B. Bagheri, B. Taherkahnchi (Tehran, Tabriz, Islamic Republic of Iran)