Friday March 21, 2014

Opening Session

08:30-08:45 Welcome and introduction by Bruno Crestani, ERS Conferences and Seminars Director

08:45-09:30 Opening Lecture: The lung dendritic cell network and the response to allergens
Bart Lambrecht, Ghent, Belgium

09:30-09:45 Discussion

Session 1: The genesis of allergy and asthma

09:45-10:05 Presentation by an expert: The atopic march: new evidences
Mei Li, Illkirch, France

10:05-10:20 Discussion

10:20-10:35 OP01: ILC2 contribute to ozone-induced airway hyperresponsiveness in obese mice
Joel Mathews, Boston, United States of America

10:35-10:55 Coffee break

10:55-11:15 Presentation by an expert: Innate lymphoid cells and Th2 immunity
Andrew McKenzie, Cambridge, United Kingdom

11:15-11:30 Discussion

Session 2: Effector mechanisms in allergy

11:30-11:50 Presentation by an expert: Mast cells in human airways: the culprit?
Jonas Erjefält, Lund, Sweden

11:50-12:05 Discussion

12:05-12:20 OP02: Processed and full length IL-33 are active
Laura Rapley, Cambridge, United Kingdom

12:20-12:40 Presentation by an expert: Contribution of mouse and human IgG receptors in systemic anaphylaxis
Pierre Bruhns, Paris, France

12:40-12:55 Discussion
Lunch for all delegates + mentorship lunch for bursaries recipients and their mentors

Session 3: Epithelial and endothelial cells at the forefront

14:30-14:50  
Presentation by an expert: Epithelial cells drive inflammation in the digestive tract  
Manolis Pasparakis, Cologne, Germany

14:50-15:05  
Discussion

15:05-15:20  
OP03: Influenza virus (IV) impairs fibroblast growth factor receptor 2b (FGFR2b) dependent epithelial regeneration from a distal epithelial progenitor pool  
Jennifer Quantius, Giessen, Germany

15:20-15:40  
Presentation by an expert: Pulmonary hypertension: a taste of autoimmunity?  
Frédéric Perros, Le Plessis Robinson, France

15:40-15:55  
Discussion

15:55-16:10  
OP04: Antagonizing BAFF prevents lymphoid follicle formation in cigarette smoke-exposed mice  
Leen Seys (Ghent, Belgium)

16:10-16:30  
Coffee break

16:30-18:30  
Poster Session 1

PP101: Interleukin-27 (IL27), a new solution for gene immunotherapy of lung cancer - Tomasz Wandtke

PP102: Airway hyperresponsiveness and the late asthmatic response: exploring the role of key effector cells - Katie Baker

PP103: Immunotherapy using IL-2 potentially reverse disorders of Th1 /Th17 response in patients with MDR-TB - Qi Tan

PP104: The kinetic profile of IP-10 over the first 14 days of TB chemotherapy - Rachel Saunders

PP105: Differential function of IL-17A in cigarette smoke induced lung damage - Meike Voss

PP106: The comparison of the generic and novel engineered drug formulations of corticosteroid and β2-agonist in an in vitro inflammatory model - Younis Khan

PP107: Intravital Imaging of the Lung - Matthew Krummel

PP108: Effect of bronchoalveolar lavage fluid from patients with interstitial lung diseases on epithelial cells and fibroblasts - Martina Sterclova
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<th>The cation channel TRPV4 regulates epithelial barrier responses to Lipopolysaccharides</th>
<th>Yerandy A. Alpizar</th>
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<td>Fasudil prevents skin and lung fibrosis in HOCl-induced systemic sclerosis in mice</td>
<td>Thông Hua-Huy</td>
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<td>Supplementation of prebiotic galactooligosaccharide reduces severity of exercise induced asthma (EIA) in physically active asthmatics – A pilot study</td>
<td>Neil C Williams</td>
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<td>The enhanced oxidative stress during rhinovirus-induced exacerbation in asthma patients parallels a reduced anti-oxidative capacity of airway macrophages</td>
<td>Caterina Folisi</td>
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<td>PP113</td>
<td>M2-polarized macrophages attenuate influenza virus-induced acute lung injury</td>
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<td>Influence of systemic steroid therapy on bronchoalveolar lavage (BAL) lymphocyte phenotype and apoptosis rate in selected interstitial lung diseases (ILD)</td>
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<td>Hypoxia and the hypoxia-regulated transcription factor HIF-1alpha regulate innate immune responses of respiratory epithelial cells</td>
<td>Christoph Beisswenger</td>
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<td>PP116</td>
<td>The ability of lung parenchymal fibroblasts to interact with T cells</td>
<td>Andrew Hutton</td>
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<td>Transient receptor potential channels in isocyanate-induced airway hyperresponsiveness</td>
<td>Fien Devos</td>
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<td>Peripheral blood and sputum inflammatory cells activity during acute exacerbation of COPD</td>
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<td>Jemima Beissbarth</td>
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<td>In vitro effect of inhaled glucocorticoids on the virus-induced activation of bronchial epithelial cells from asthmatic children</td>
<td>Delphine Gras</td>
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<td>The role of the formyl peptide receptor in the development of pulmonary fibrosis</td>
<td>Ben Millar</td>
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<td>Regulation of alveolar epithelial cell Na,K-ATPase expression and localization after influenza virus infection</td>
<td>Christin Becker</td>
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<td>PP123</td>
<td>Combined effects of inflammatory mediators and BMPR2 mutation on pulmonary arterial cell function in a pulmonary arterial hypertension</td>
<td>Leanda Vengethasamy</td>
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<td>Probenecid reduces inflammation and colonization during bacterial pneumonia</td>
<td>Bodo Wonnenberg</td>
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<td>Influenza-Induced Exacerbation In A Murine Chronic House Dust Mite (HDM) Asthma Model</td>
<td>Lara Ravanetti</td>
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<td>PP126</td>
<td>Cigarette smoke induces apoptosis followed by a proliferative and pro-inflammatory cytokine profile, rather than EMT in the COPD lung epithelium</td>
<td>Ana Cameleo</td>
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<td>PP127</td>
<td>Peripheral blood neutrophil chemotaxis is related to sputum neutrophil count after bronchial allergen challenge in asthma patients</td>
<td>Simona Lavinskiene</td>
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PP128: Proteinase activated receptor-1 (PAR1) plays a key role in the early inflammatory response to Streptococcus pneumoniae pulmonary infection - Ricardo José

PP129: Deglycosylated bleomycin, while keeping bleomycin’s antitumor activity, is devoid of its strong pulmonary toxicity - Olivier Burgy

PP130: Influenza infection of human lung macrophages increases PDL1 expression via autologous IFNβ - Karl J. Staples

PP131: Allergen-induced late phase airway inflammation is related to increased peripheral blood Th9 cell count and reduced eosinophil apoptosis in allergic asthma - Deimante Hoppenot

PP132: Impact of cigarette smoke on function and expression of immunoproteasomes - Ilona Keller

PP133: Chemerin/ChemR23 pathway in diesel exhaust particles-induced pulmonary inflammation - Katrien De Grove

PP134: IREB2 may contribute to worsening lung function in alpha-1 antitrypsin deficiency by altering neutrophil chemotaxis - Heena Khiroya

PP135: How reliable are upper airway cell lines for studying the pathophysiology of chronic rhinosinusitis? - Stephen Ball

PP136: Methylene diphenyl diisocyanate in a mouse model of chemical-induced asthma - Lore Pollaris

PP137: Increased myelopoiesis induced by cigarette smoke transiently increases kinetics of lung bacterial clearance in mice - Paola Basilico

PP138: Deciphering of the mechanism of the anti-asthmatic action of the CXCL12 neutraligand, chalcone 4 - Francois Daubeuf

PP139: Expansion of multiple dendritic cell populations in the alveolar parenchyma in patients with COPD - Michiko Mori

PP140: First evidence for impaired epithelial barrier in house dust mite sensitized allergic rhinitis patients - Brecht Steelant

PP141: Correction of aberrant peripheral neutrophil migration in the aged by simvastatin in health and during respiratory infections - Hannah Greenwood

PP142: Role of TNF-a signaling on early pulmonary changes in newborn mice undergoing mechanical ventilation - Tina Gimm

PP143: Difficulties in the early diagnosis of bronchial asthma in children - Natalia Samigullina

PP144: Myeloid dendritic cells from atopic asthmatics induce both Th2 and Th9 cells in response to thymic stromal lymphopoietin - Antoine Froidure

PP145: Lung tumours reprogram pulmonary dendritic cell immunogenicity at the microRNA level - Karim Vermaelen

PP146: M1/ M2 subpopulations of macrophages in patients with Sarcoidosis- influence of smoking status - Iwona Osinska
PP147: Large and small airway epithelium innate immune responses in Chronic Obstructive Pulmonary Disease - Elizabeth Moisey

PP148: Aged mice exhibit an enhanced innate inflammatory response following infection with Streptococcus pneumonia - Andrew Williams

18:30-20:30  Early evening session: The new drug discovery paradigm
Robert Streiter, Novartis
Thomas Musterlin, MedImmune

From 20:30  Dinner for all delegates

Saturday March 22, 2014

Session 4: New trends in immunology and asthma

08:45-09:05  Presentation by an expert: Transcriptional circuits directing helper versus cytotoxic programs during effector T cell differentiation
Remy Bosselut, Bethesda, United States of America
09:05-09:20  Discussion

09:20-09:35  OP05: A New Target and Novel Agent to Prevent Acute Lung Injury
Aron Fisher, Philadelphia, United States of America

09:35-09:55  Presentation by an expert: Resolving inflammation: new mechanisms
Derek Gilroy, London, United Kingdom
09:55-10:10  Discussion

10:10-10:25  OP06: Macrophages are required to maintain type-2 dependent inflammation, immunity and fibrosis
Lee Borthwick, Newcastle, United Kingdom

10:25-10:50  Group Picture and Coffee break

10:50-11:10  Presentation by an expert: Role of basophils in allergic inflammation and protective immunity
Hajime Karasuyama, Tokyo, Japan
11:10-11:25  Discussion

11:25-11:40  OP07: Targeting of microRNAs can restore innate anti-viral response in asthma
Hitasha Rupan, Southampton, United Kingdom
11:40 – 14:00   Poster Session 2

*Buffet lunch will be served from 11:40 to 14:15*

**PP149:** Severity of House Dust Mite-induced asthma exacerbations correlate with enhanced oxidative stress and a reduced anti-oxidative capacity locally and systemically  - Caterina Folisi

**PP150:** Three-dimensional human lung micro-cultures for in vitro studies of COPD  - Veronika Csongei

**PP151:** Defective A20 signalling in Cystic Fibrosis: Anti-inflammatory action of Gibberellin - Bettina Schock

**PP152:** HMGB1-overexpression and Allergic Asthma  - Filipe Branco Madeira

**PP153:** Serum free light chains: a potential new biomarker in COPD? - Judith Brebner

**PP154:** Specific miRNAs/mRNAs in inflammatory Th17 cells- importance for severe asthma  - Marc Kaestle

**PP155:** DNA in particles of exhaled air – a future biomarker of airway inflammation? - Mona Larstad

**PP156:** Allergen-induced expression of bradykinin B2 receptor in bronchial mucosa of mild asthma: role for NF-kB  - Fabio L. M. Ricciardolo

**PP157:** ATP/P2R-Axis influence of viral induced COPD-Exacerbation in mouse model  - Sanja Cicko

**PP158:** Mesenchymal Stem Cells differentiate into lipofibroblast-like cells which support Type II Alveolar Epithelial Cell homeostasis in vitro - Domokos Bartis

**PP159:** H2S modulates airway hyperresponsiveness in mice by regulating mast cells - Fiorentina Roviezzo

**PP160:** Lower threshold for TRPV1 and TRPA1 activation of sensory nerves in idiopathic rhinitis patients - Laura Van Gerven

**PP161:** Differential effect of stretch and TGF-beta on functional properties of neonatal lung (myo)fibroblast  - Prajakta Oak

**PP162:** Role of Helicobacter pylori eradication in COPD exacerbation  - Soroush Seifirad

**PP163:** A direct anti-viral role for eosinophils? - Suzanne Bal

**PP164:** Inspiratory muscle training and inflammation in older adults  - Michael Johnson

**PP165:** Response to salbutamol in healthy, never-smokers individuals - high variability of small airways spirometric parameters - Tiago Jacinto

**PP166:** A network of microRNAs increases IL-6 expression in asthmatic epithelial cells  - Rocio Martinez-Nunez

**PP167:** Lipoxin A4improves efferocytosis via inhibition of the HMGB1 in human alveolar macrophages - Qian Wang
PP168: B cells contribute to sphingosine-1-phosphate-induced lung inflammation - Rosalinda Sorrentino

PP169: Epithelial to mesenchymal transition in the airway epithelium from copd patients: correlation to disease severity - Sophie Gohy

PP170: Early signaling pattern in neonatal chronic lung disease - Tina Gimm

PP171: MicroRNAs in asthma - Tilman Sanchez-Elsner

PP172: Evaluation of Paraoxonase1 activity and its relationship to the severity of lung impairment in COPD - Vikas Dogra

PP173: Identification of inflammatory phenotypes of asthma by characterizing innate immune cells in peripheral blood - Bart Hilvering

PP174: The role of microfibrillar-associated protein 4 in the murine model of asthma - Bartosz Pilecki

PP175: A quantitative road from TGFβ Signaling to cellular responses in lung cancer - Dmytro Dvornikov

PP176: Multidimensional endotypes of asthma identified by topological data analysis - Timothy Hinks

PP177: Influence interaction in co-cultures of lung cancer cells, fibroblasts and macrophages on the expression of MMP-1 and VEGF - Xiaqing Liu

PP178: Role of tumor necrosis factor-α rs1800630 polymorphism and its association with inflammation in Chronic Obstructive Pulmonary Disease and its progression - Naushad Khan

PP179: Altered Wnt microenvironment during pulmonary senescence leads to decline of the alveolar epithelial surface - Tamas Kovacs

PP180: The interleukin-33 receptor ST2 is important for the development of peripheral airway hyperresponsiveness and inflammation in a house dust mite mouse model for asthma - Anna Zoltowska

PP181: Role of matrix metalloproteinase 13 in the function of dendritic cells - Juliane Bartmann

PP182: HDAC inhibitors may regulate EMT in alveolar epithelial cells - Vijay DSouza

PP183: Secondhand cigarette smoke exposure induces lasting upper airway colonization and increases severity of otitis media after S. pneumoniae infection in mice - Paola Basilico

PP184: Absence of Periplakin protects from lung fibrosis after bleomycin injury in mice - Valerie Besnard

PP185: Impact of COPD on PD-1/PD-L1 expression in an ex vivo model of acute influenza virus expression - Richard McKendry

PP186: Evaluation of CLEC14A and ROBO4 expression in non-small cell lung carcinoma patients following Bevacizumab treatment - Judit Rapp

PP187: Influence of a Th2 immune response on airway remodeling in asthma - Katharina Dietz
PP188: Systemic inflammatory response to smoking in COPD - Tamara Cruz
PP189: Azithromycin lowers mucin production by increasing FOXA2 expression in an IL-13-induced MUC5AC expression model in human bronchial epithelial cells - Tinne Mertens
PP190: Effects of in utero cigarette smoke exposure on pulmonary signaling networks in a murine model - Petra Nathan
PP191: Endotraheal Intubation Triggers Neutrophil Extracellular Traps - Davide Scozzi
PP192: MicroRNA-mediated down-regulation of CREB1 and decreased epithelial SEC14L3 in experimental and human paediatric asthma - Sabine Bartel
PP193: A lysate of Helicobacter pylori induces IL-10 secretion by human monocyte-derived dendritic cells and primes for IL-10 producing T cells - Yolanda van Wijck
PP194: The involvement of microRNAs in macrophage response to viruses in asthma exacerbations - Ana Francisco-Garcia
PP195: Bacterial infections among smokers might be a major factor behind airway remodeling - Yuan Xu

**Young Investigator Session – William MacNee Award**

14:15-14:30  YI01: Inhibition of airway hyperresponsiveness and inflammation by vaccination against IL-33 in a house dust mite model of asthma
Ying Lei, Stockholm, Sweden

14:30-14:45  YI02: A20 levels in dendritic cells control eosinophilic versus neutrophilic lung inflammation in asthma
Helen Vroman, Rotterdam, Netherlands

14:45-15:00  YI03: Influenza infection may cause exacerbation of lung fibrosis through collagen deposition
Anastasios Stavrou, Nottingham, United Kingdom

15:00-15:15  YI04: RORγt-specific RNAi decreases allergic airway inflammation and airway hyperresponsiveness in a mouse model of neutrophilic asthma
Sina Webering, Borstel, Germany

15:15-15:30  YI05: Alternative macrophage polarization and role during lung epithelium injury and repair in vivo
Rania Dagher, Paris, France

15:30-15:50  **Coffee break**

15:50 – 18:30  **Roundtable for Junior Delegates**

18:30 – 19:15  **Evening Pre-Dinner Talk**
Toxic tangles, emphysema and dementia
David Lomas, London, United Kingdom

From 19:45  Gala Dinner and Award Ceremony followed by the LSC Party
# Sunday March 23, 2014

## Session 5: Immune responses in chronic lung diseases

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<td>09:00-09:20</td>
<td>Presentation by an expert: Intra-vital imaging of the lung</td>
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<td>Matthew F. Krummel, San Francisco, United States of America</td>
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<td>09:20-09:35</td>
<td>Discussion</td>
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<td>09:35-09:50</td>
<td>OP08: Matriptase is an important player in fibroproliferative disorders</td>
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<td>Olivier Bardou, Paris, France</td>
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<td>09:50-10:05</td>
<td>OP09: Inhibition of the HIF/leptin/ObR axis prevents experimental pulmonary hypertension and attenuates Treg impairment</td>
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<td>Alice Huertas, Le Plessis-Robinson, France</td>
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<td>10:05-10:20</td>
<td>OP10: Phenotypic, transcriptomic and epigenetic plasticity of dendritic cells in the lung tumor microenvironment reflects imprinting by hypoxia exposure</td>
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<td>Karim Vermaelen, Ghent, Belgium</td>
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<td>10:20-10:40</td>
<td>Coffee</td>
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<td>10:40-11:00</td>
<td>Presentation by an expert: T cell regulation in lung transplantation</td>
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<td>Stephen Juvet, Oxford, United Kingdom</td>
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<td>11:00:11:15</td>
<td>Discussion</td>
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<td>11:15-11:35</td>
<td>Presentation by an expert: Idiopathic Pulmonary Fibrosis: thinking outside of the box</td>
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<td>C. Feghali-Bostwick, Pittsburgh, United States of America</td>
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<td>11:35-11:50</td>
<td>Discussion</td>
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<td>11:50-12:10</td>
<td>Presentation by an expert: Autoimmunity in human emphysema</td>
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<td>Farrah Kheradmand, Houston, United States of America</td>
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<td>12:10-12:25</td>
<td>Discussion</td>
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<td>12:25 – 12:45</td>
<td>Conclusion by Bruno Crestani, ERS Conferences and Seminars Director</td>
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