Friday March 15, 2013

08:30 – 09:30 Opening Session
08:30 – 08:45 Introduction
08:45 – 09:30 Opening Lecture: Making translational research work: from bench to bedside and back again
Paul O’Byrne, Ontario, Canada

09:30 – 11:40 Session I: Microbiota in chronic lung disease
09:30 – 09:50 Presentation by an expert: Early influences of the airway microbiome on obstructive lung disease
Erika von Mutius, Munich, Germany
09:50 – 10:05 Discussion
10:05 – 10:20 OP01: A comparative analysis of bacterial phylotypes of the lung microbiota of healthy, IPF and transplanted lungs
John Erb-Downward, Ann Arbor, United State of America
10:20 – 10:50 Coffee
10:50 – 11:10 Presentation by an expert: Emerging relationships between airway microbiota and chronic respiratory disease: mechanisms of disease onset
Gary Huffnagle, Ann Arbor, United States of America
11:10 – 11:25 Discussion
11:25 – 11:40 OP02: The role of second-generation sequencing to characterize the fungal microbiota in the adult Cystic Fibrosis airway, and its correlation with standard culture-based methods and clinical phenotype
Mike Harrison, Cork, Ireland

11:40 – 13:20 Session II: Mucosal and cellular interactions in the origins of inflammatory disease
11:40 – 12:00 Presentation by an expert: Epithelial barrier biology: interactions between the epithelium and lymphocytes in disease
Marc Veldhoen, Cambridge, United Kingdom
12:00 – 12:15 Discussion
12:15 – 12:30 OP03: Identifying a molecular defect in bronchial epithelial cells from 70% of mild asthmatics
Saheli Chowdhury, Amsterdam, The Netherlands
12:30 – 12:50  Presentation by an expert: Early Treg function and allergic airways disease
Anuradha Ray, Pittsburgh, United States of America

12:50 – 13:05  Discussion

13:05 – 13:20  OP04: Sphingosine-1-phosphate administration in vivo induces airway inflammation and hypereactivity in a IgE-dependent manner
Fiorentina Roviezzo, Naples, Italy

13:20 – 14:30  Lunch for all delegates + mentorship lunch for bursaries recipients and their mentors

14:30 – 16:30  Session III: Early environmental exposures and the development of chronic lung disease

14:30 – 14:50  Presentation by an expert: The role of perinatal bacterial colonization in the origins of asthma and allergy
Hans Bisgaard, Copenhagen, Denmark

14:50 – 15:05  Discussion

15:05 – 15:20  OP05: NF-κB acts downstream of EGFR in regulating low dose cadmium induced primary lung cell proliferation
Arindam Bhattacharyya, Kolkata, India

15:20 – 15:40  Presentation by an expert: Early microbial exposures and persistent effects on immune function
Richard Blumberg, Boston, United States of America

15:40 – 15:55  Discussion

15:55 – 16:10  OP06: The long-term effect of neonatal respiratory syncytial virus (RSV) infection on the response to adult allergen challenge
Laura Lambert, London, United Kingdom

16:10 – 16:30  Coffee
16:30 – 18:30  Poster Session 1

PP101: Th17 response to inhaled Dermatophagoides pteronyssinus is related to late-phase airway and systemic inflammation in patients with allergic asthma - Ieva Bajoriuniene

PP102: Expression patterns and putative roles of Forkhead box F1 in normal lung and Idiopathic Pulmonary Fibrosis - Plantier Laurent

PP103: NADPH oxidase isoform 2 (NOX2) is expressed in alveolar macrophages of emphysematous patients and prevents elastase-induced emphysema through the involvement of MMP9/TIMP1 gene expression - Stephanie Carnescchi

PP104: Functional and immunological abnormalities in patients with severe asthma - Olga Kharevich

PP105: Differential susceptibility of fetal and adult lung to Respiratory Syncytial Virus infection and modulation by cytokine environment - Cosma Mirella Spalluto

PP106: Host defense against pneumonia: The role of the leptin/neutrophil axis? - Niki Ubags

PP107: Autotaxin in pulmonary inflammation, fibrosis and cancer - Vassilis Aidinis

PP108: The Role of Inducible Nitric Oxide Synthase (iNOS) for the Remodeling of Alveolar Septa in Surfactant Protein D Deficient Mice - Bastian Birkelbach

PP109: Altered expression of E3 ubiquitin ligases contributes to an inflammatory phenotype in models of the cystic fibrosis airway - Luka A. Clarke

PP110: Bioavailability of VEGF in Idiopathic Pulmonary Fibrosis - Shaney Barratt

PP111: Serum YKL-40 is increased in Children with Bronchopulmonary Dysplasia Compared to Children with Asthma - Anna James

PP112: Identification of biomarkers for early diagnosis in BP - Tina Gimm

PP113: Blocking protease-activated receptor (PAR)-2 with pepducin P2Pal-18S limits bleomycin-induced pulmonary fibrosis - Lin Cong

PP114: Hypoxia-inducible factor 1 alpha polymorphisms in relation to pulmonary involvement in systemic sclerosis - Harpreet Lota

PP115: Reduced nuclear translocation of serum response factor is associated with skeletal muscle wasting in a cigarette smoke-induced mouse model of chronic obstructive pulmonary disease - Ma Ran

PP116: The role of beta2 adrenergic receptor polymorphism in asthmatic patients - Margarida Castro

PP117: Early vascular remodelling in pulmonary fibrosis occurs concomitant with proliferation of vascular-associated cells - Kristina Rydell-Tormanen

PP118: Toll-like receptor 4 (TLR4) plays an important role in a mouse model of acute lung injury - Linin Shang

PP119: Lung-resident CD4+T cells are sufficient for IL-4RA dependent recall immunity to Nippostrongylus brasiliensis infection - Sumaiyya Thawer
PP120: The viability of mesenchymal stem cells after nebulization via different types of nebulizers - Nataliya Kulagina

PP121: Identification of granulocytic asthma in peripheral blood - Bart Hilvering

PP122: Unravelling VEGF165 signalling in the lung - Khadija Ourradi

PP 123: Defining the bacterial microbiota of adult non-CF bronchiectasis - Geraint Rogers

PP124: Functional modulation of bone marrow-derived dendritic cells depends on polystyrene particles size - Emilie Seydoux

PP125: Abnormal Neutrophil Migration is a Feature of Early COPD, Present Across Disease Phenotypes and Causally Related to Increased Phosphoinositide-3-Kinase Signalling - Georgia Walton

PP126: TLR7 decreases and TLR9 increases the airway responses in mice with established allergic inflammation - Mikael Adner

PP127: Cr(VI) stimulated fibroblasts and Epithelial Mesenchymal Transition induction in epithelial cells - Lina Carvalho

PP128: Immunocytochemical Colocalization of Fibroblast Growth Factor-1 with Neurotrophin-3 in Mouse Alveolar Macrophages - Shiori Hikawa

PP129: Prominence Of MMP-12 And MMP-13 In Dendritic Cells And The Impact On A Murine Model Of Bronchiolitis Obliterans - Juliane Bartmann

PP130: Children with chronic suppurative lung disease have a Th2 polarised immune response to H. influenza - Susan Pizzutto

PP131: The role of glutaredoxin-1 in diesel exhaust particles-induced pulmonary inflammation - Sharen Provoost

PP132: The role of Damage Associated Molecular Patterns in the genetic susceptibility towards cigarette smoke induced neutrophilic airway inflammation - Daan Pouwels

PP133: Volatile compounds of exhaled breath in lung cancer and lung inflammatory disease - Agnese Kislina

PP134: A comparison of responses of dendritic cells derived from cord blood versus adult peripheral blood to TLR ligands and rhinovirus infection - Nicole Bedke

PP135: Low doses of azithromycin or of prednisolone restore impaired inflammatory response in cystic fibrosis patients - Galina Shmarina

PP136: Apocynin augments expression IL-6, IL-8 and TNF expression in vitro - Joanna Wieczfinska
18:30 – 20:30  Meet-the-Editor Session
- Editorial policies at Nature Medicine – Kevin Da Silva
- The future place for the ERR – Vincent Cottin
- Research integrity and publication ethics – Sabine Kleinert
- Our flagship journal: The vision for the next years – Marc Humbert
Thorax – Andy Bush

From 20:30  Dinner for all delegates

Saturday March 16, 2013

08:45 – 12:00  Session IV: Early origins of chronic lung disease
08:45 – 09:05  Presentation by an expert: Determinants of COPD susceptibility
Dirkje Postma, Groningen, The Netherlands
09:05 – 09:20  Discussion
09:20 – 09:35  OP07: Role of CXCL13 in cigarette smoke-induced lymphoid follicle formation and COPD
Ken Bracke, Ghent, Belgium
09:35 – 09:55  Presentation by an expert: Modelling and remodelling: when does asthma begin?
Andy Bush, London, United Kingdom
09:55 – 10:10  Discussion
10:10 – 10:25  OP08: An in vivo approach to determine the dynamic Sox2 interactome of the developing lung
Kim Schilders, Rotterdam, The Netherlands

10:25 – 10:55  Group Picture (with all participants) and Coffee Break
10:55 – 11:10  OP09: Cytidine 5’-Diphosphocholine (CDP-Choline) ameliorates hyperoxic lung injury in a neonatal rat model
Merih Cetinkaya, Ankara, Turkey
11:10 – 11:30  Presentation by an expert: Immune deviation and development of chronic lung disease
Anne L Wright, Tucson, United States of America
11:30 – 11:45  Discussion
11:45 – 12:00  OP10: Early sources of IL-13 in house dust mite-induced neonatal allergic airways disease
Jessica Vasiliiou, London, United Kingdom
12:00 – 14:00  Poster Session 2 and Lunch

PP137: Characterization of Tbx21-deficient mice as a model for transgenerational asthma risk propagation - Stefan Dehmel


PP139: Differentiated type II pneumocytes can be reprogrammed by ectopic Sox2 expression - Joshua Kapere Ochieng

PP140: Mast Cells Support Rhinovirus but not Respiratory Syncytial Virus Replication and Contribute to the Pro-inflammatory response to Rhinovirus - Emily J. Swindle

PP141: Influence of AECOPD to monocytes apoptosis and chemotaxis and macrophages phagocytosis - Vaitkus Mindaugas

PP142: Regulation of microRNAs in response to Herpes Simplex Virus type-1 (HSV-1) infection in Idiopathic Pulmonary Fibrosis (IPF): preliminary results - Eliza Tsitoura

PP143: Dehydroepiandrosterone as an alternative drug for the treatment of steroid resistant asthmatic patients: comparison of natural hormone with the synthetic nanophorm in in vitro experiments - Alexander Pukhalsky

PP144: Increased Expression of Bitter Taste Receptors on Peripheral Blood Leukocytes from Children with Severe Asthma Compared to Healthy Controls - Anna James

PP145: Aspirin-sensitive asthma as the pathology of the platelet’s melatonin production - Helen V. Evsyukova

PP146: Polymicrobial airway bacterial communities in adult bronchiectasis patients - Stephen Cummings

PP147: Apocynin reduces hydrogen peroxide and nitrite concentrations in chronic obstructive pulmonary disease patients - Joanna Wieczfinska

PP148: Expression of vascular remodeling markers in relation to bradykinin receptors in asthma and COPD - Fabio L. M. Ricciardo-lo

PP149: Simulated bronchoalveolar lavage: Oral bacterial contamination of the bronchoscope affects lavage results - Nielsen Rune

PP150: Coagulation Factor IX deficiency does not afford protection from bleomycin-induced pulmonary fibrosis in mice - Keren Borensztajn

PP151: Increased risk for lung injury in PDGF-Rα deficient newborn mice - Anne Hilgendorff

PP152: Peripheral blood neutrophil chemotaxis and apoptosis in patients with allergic asthma challenged with Dermatophagoides pteronyssinus - Simona Lavinskiene

PP153: Activin-A Is Up-Regulated In Severe Asthma And Is Associated With Angiogenesis - Konstantinos Samitas

PP154: Bacterial species associated with the lower airways of patients with and without bronchiolitis obliterans syndrome after lung transplantation - Geraint Rogers
PP155: The metabolomic impact of pseudomonal growth on cystic fibrosis airway secretion composition - Geraint Rogers

PP156: Age of First Allergen Exposure is Critical in Determining the Development of Allergic Airway Disease - Rebekah Sherburn

PP157: ST13 and ORMDL3 polymorphisms affect the risk of exacerbations in steroid-treated asthmatic children and young adults - Susanne Vijverberg

PP158: Cigarette smoke suppresses innate immunity of the upper-respiratory tract leading to enhanced colonization of the lung - Meike Voss

PP159: Development Of A Mouse Model of COPD Exacerbation - Aran Singanayagam

PP160: Early indicators of oxidative stress in patients with COPD - Marina N. Paley

PP161: New insight into expression profile of inflammatory genes in peripheral blood mononuclear cells stimulated with dermatophagoides pteronyssinus allergen (der p1) - Ewa Pniewska

PP162: Hospitalization for lower airway infection during the first year after birth increases risk of asthma after ten years both in term and preterm infants - Charlotte Palme Kilander

PP163: Microbial colonization instigates a lung-specific immunoregulatory pathway that protects against exaggerated allergic inflammation - Eva Gollwitzer

PP164: Volatile organic compounds may provide a new and promising tool for diagnosing interstitial lung diseases - Agnes Boots

PP165: Apoptotic, inflammatory and fibrogenic effects of two different types of multi-walled carbon nanotubes in mouse lung - Agnes Boots

PP166: Comparison of surfactant protein A in particles in exhaled air (PEx) and bronchoalveolar lavage - Mona Larstad

PP167: Pulmonary Senescence in Chronic Obstructive Pulmonary Disease is primarily mediated by persistent DNA double strand breaks - Manish Kumar

PP168: Roles of polarized neutrophils on lung tumour cells engraftment in an orthotopic lung tumour mouse model - Natacha Rocks

PP169: Volatile organic compounds in day care centers constitute a risk factor for absence due to wheezing - Pedro Carreiro-Martins

PP170: miRNA-based identification of SEC14L3 deregulation in murine experimental asthma - Sabine Bartlet

PP171: Microbial Communities in the Respiratory Tract of Patients with Interstitial Lung Disease - Markus Hilty

PP172: Isolation and characterization of a novel Pseudomonas species from an individual with chronic respiratory disease - Brittan S. Scales
14:00 – 15:15 Young Investigator Award Session

14:00 – 14:15 YI01: Overexpression of IRF5 ameliorates house dust mite-mediated airway hyper-responsiveness via macrophage polarisation towards a classically activated phenotype - Adam Byrne, London, United Kingdom

14:15 – 14:30 YI02: MicroRNA Based Biomarkers For Early Risk Assessment Of Asthma - Katrin Milger, Munich, Germany

14:30 – 14:45 YI03: Mechanisms Regulating Enhanced αvβ6 Expression in Pulmonary Fibrosis - Amanda Tatler, Nottingham, United Kingdom

14:45 – 15:00 YI04: Dietary fiber shapes the intestinal and airway microbiome, alters dendritic cell functionality, and leads to an environment less permissive to allergic inflammation - Aurelien Trompette, Lausanne, Switzerland

15:00 – 15:15 YI05: Perinatal antibiotic treatment affects murine microbiota, immune responses, and pathology in models of allergic asthma and hypersensitivity pneumonitis - Shannon Russell, Canada, Vancouver

15:15 – 15:25 ERS Junior Committee presentation
Indre Butiene, Klaipeda, Lithuania

15:25 – 15:35 Early origins of CLD – Presentation of the COST Network
Susanne Krauss-Etschmann, Munich, Germany

15:30 – 18:45 Afternoon activity

19:15 – 19:45 Evening Pre-Dinner Talk: The meaning of mentorship
Guy Brusselle, Ghent, Belgium

From 20:00 Gala Dinner and Award Ceremony
### Sunday March 17, 2013

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<th>Time</th>
<th>Session V: Bridging innate and adaptive immune pathways in disease inception</th>
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<td>09:00 – 09:20</td>
<td>Presentation by an expert: Innate lymphoid cells: Development, lineage and function</td>
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<td>Jenny Mjosberg, Amsterdam, Netherlands</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><strong>OP11</strong>: The role of mast cells, IL-13 and TRP channels in a mouse model of chemical-induced airway hyperresponsiveness</td>
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<td>Fien Devos, Leuven, Belgium</td>
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<td>09:50 – 10:05</td>
<td><strong>OP12</strong>: TLR-3 triggered aggravation of experimental asthma depends on IL-17</td>
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<td>Lars Lunding, Borstel, Germany</td>
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<td>10:05 – 10:25</td>
<td>Coffee</td>
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<td>10:25 – 10:45</td>
<td>Presentation by an expert: Interactions between innate immunity, inflammation and structural cells in pulmonary disease</td>
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<td>Gregory Downey, Denver, United States of America</td>
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<td>10:45 – 11:00</td>
<td>Discussion</td>
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<td>11:00 – 11:20</td>
<td>Presentation by an expert: IL33 and onset of chronic lung disease</td>
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<td>Marsha Wills-Karp, Cincinnati, United States of America</td>
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<td>11:20 – 11:35</td>
<td>Discussion</td>
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<td>11:35 – 11:55</td>
<td>Presentation by an expert: IL17 and the development of inflammatory airway diseases</td>
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<td>Jay Kolls, Pittsburgh, United States of America</td>
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<td>11:55 – 12:10</td>
<td>Discussion</td>
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<td>Conclusion</td>
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<td>12:40</td>
<td>Departure</td>
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