### Thursday 23 March 2017

**Opening Session**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>18:00-18:15</td>
<td>Welcome and Introduction</td>
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<tr>
<td></td>
<td>Rachel Chambers, ERS Conferences and Seminars Director</td>
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<tr>
<td>18:15-18:45</td>
<td>Opening Lecture</td>
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<td>Chair: Guy Brusselle</td>
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<td></td>
<td>Gary Anderson (Melbourne, Australia)</td>
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<tr>
<td>18:45-19:00</td>
<td>Discussion</td>
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<tr>
<td>19:00-19:30</td>
<td>Welcome cocktail</td>
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### Friday 24 March 2017

#### Session 1: Pathological and mechanistic disease similarities

**Chairs:** Reinoud Gosens and Agnes Boots

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:45-09:05</td>
<td>Tumor heterogeneity and stemness in cancer (title TBC)</td>
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<tr>
<td></td>
<td>Sam Janes, London, United Kingdom</td>
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<tr>
<td>09:05-09:20</td>
<td>Discussion</td>
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<tr>
<td>09:20-09:35</td>
<td>OP01 - CREB signaling in KRAS-driven lung adenocarcinoma</td>
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<td></td>
<td>Georgia Giotopoulou, Patras, Greece</td>
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<td>09:35-09:50</td>
<td>OP02 - Downregulation of the pro-apoptotic gene, BNIPL, in bronchial</td>
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<td>biopsies from COPD patients</td>
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<td>Karl J. Staples, Southampton, United Kingdom</td>
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<td>09:50-10:10</td>
<td>Epithelial progenitor cell dysfunction in chronic lung disease:</td>
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<td></td>
<td>potential roles for altered p53 signaling</td>
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<td></td>
<td>Barry R. Stripp, Beverly Hills, USA</td>
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<td>10:10-10:25</td>
<td>Discussion</td>
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<tr>
<td>10:25-10:50</td>
<td>Coffee break</td>
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#### Session 2: Shared pathways of repair

**Chairs:** Adam Giangreco and Mareike Lehmann

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:50-11:10</td>
<td>Lung stem cells and lung cancer</td>
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<tr>
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<td>Carla Kim, Boston, USA</td>
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<tr>
<td>11:10-11:25</td>
<td>Discussion</td>
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<tr>
<td>11:25-11:40</td>
<td>OP03 - A critical role for mTOR regulated metabolic reprogramming</td>
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<td>during TGF-β induced fibroblast collagen synthesis</td>
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<td></td>
<td>Brintha Selvarajah, London, United Kingdom</td>
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<tr>
<td>11:40-11:55</td>
<td>OP04 - Deregulated SOX2 drives a migratory signature in a novel</td>
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<td>organotypic model of bronchial dysplasia</td>
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<td></td>
<td>Lucia Correia, Cambridge, United Kingdom</td>
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<tr>
<td>11:55-12:15</td>
<td>Lung repair and disease</td>
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<td>Georgios Stathopoulos, Munich, Germany</td>
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<td>12:15-12:30</td>
<td>Discussion</td>
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**Session 3: Intersecting immunity and inflammation**

**Chairs:** Jorgen Vestbo and Sebastian Marwitz

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>14:30-14:50</td>
<td>Tertiary lymphoid structures and cancer</td>
<td>Marie-Caroline Dieu-Nosjean, Paris, France</td>
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<tr>
<td>14:50-15:05</td>
<td>Discussion</td>
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<tr>
<td>15:05-15:20</td>
<td>OP05 - Nontypeable Haemophilus influenzae-promoted proliferation of K-ras-induced early lung cancer lesions is completely dependent on Toll-like receptor signaling</td>
<td>Christoph Beisswenger, Homburg, Germany</td>
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<tr>
<td>15:20-15:35</td>
<td>OP06 - Myeloid NF-κB signaling fosters KRAS-mutant tumors</td>
<td>Magda Spella, Patras, Greece</td>
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<tr>
<td>15:35-15:55</td>
<td>Dendritic cells, immunomodulation, COPD, and cancer</td>
<td>Karim Vermaelen, Ghent, Belgium</td>
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<tr>
<td>15:55-16:10</td>
<td>Discussion</td>
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<tr>
<td>16:10-16:40</td>
<td>Coffee</td>
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**16:40-18:40 - Poster Session 1**

<table>
<thead>
<tr>
<th>Poster</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PP101</td>
<td>Hippo-YAP/TAZ signaling is deranged in IPF</td>
<td>Darcy Wagner, Munich, Germany</td>
</tr>
<tr>
<td>PP102</td>
<td>A new mechanism of latent TGF-β1 presentation in lung fibrosis</td>
<td>Henna Karvonen, Toronto, Canada</td>
</tr>
<tr>
<td>PP103</td>
<td>Targeting CD98hc: a key mediator of tumour and microenvironmental crosstalk in malignant mesothelioma</td>
<td>Claire Rooney, London, United Kingdom</td>
</tr>
<tr>
<td>PP104</td>
<td>SHP-2 is a novel anti-fibrotic regulator of fibroblast homeostasis</td>
<td>Argyris Tzouvelekis, Athens, Greece</td>
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<tr>
<td>PP105</td>
<td>Exosomal miRNA cargo in non small-cell lung cancer</td>
<td>Toby Mellows, Southmapton, United Kingdom</td>
</tr>
<tr>
<td>PP106</td>
<td>6-Hydroxy-5,7-dimethoxy-flavone suppresses the neutrophil respiratory burst via selective PDE4 inhibition to ameliorate acute lung injury</td>
<td>Tsong-Long Hwang, Taoyuan, Taiwan</td>
</tr>
<tr>
<td>PP107</td>
<td>Study of lung development, regeneration and repair using precision-cut lung slice model</td>
<td>Khondoker Akram, London, United Kingdom</td>
</tr>
<tr>
<td>PP108</td>
<td>IL-17C promotes growth and proliferation of K-ras induced cancerous lesions</td>
<td>Felix Ritzmann, Homburg, Germany</td>
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<tr>
<td>PP109</td>
<td>Roles of air pollution on lung cancer development</td>
<td>Natacha Rocks, Liege, Belgium</td>
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<tr>
<td>PP110</td>
<td>Tissue-specific imprinting of innate immunity in the development of tumour metastasis</td>
<td>Amy Adlard, Manchester, United Kingdom</td>
</tr>
<tr>
<td>PP111</td>
<td>Involvement of Igf1r in Bronchiolar Epithelial Regeneration: Role During Repair Kinetics after Selective Club Cell Ablation</td>
<td>Iciar P. Lopez, Logroño, Spain</td>
</tr>
<tr>
<td>PP112</td>
<td>IL-17C promotes tumor-associated inflammation and lung tumor growth</td>
<td>Christoph Beisswenger, Homburg, Germany</td>
</tr>
<tr>
<td>PP113</td>
<td>Using a novel organotypic model of bronchial dysplasia to screen potential therapeutic agents for the chemoprevention of lung cancer</td>
<td>Phil Barry, Cambridge, United Kingdom</td>
</tr>
<tr>
<td>PP114</td>
<td>Wnt activity marks lung progenitors capable of forming spheres in vitro</td>
<td>John-Poul Ng-Blichfeldt, Groningen, The Netherlands</td>
</tr>
<tr>
<td>PP115</td>
<td>The impact of myeloid and plasmacytoid dendritic cells in the development of lung cancer</td>
<td>Plamen Minkov, Stara Zagora, Bulgaria</td>
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</table>
PP116 - Senolytic drugs target alveolar epithelial cell function and attenuate experimental lung fibrosis ex vivo
Mareike Lehmann, Munich, Germany

PP117 - The role of LRR1G1-dependent EGFR signalling in airway homoeostasis and squamous cell lung cancer development
Laura Succony, London, United Kingdom

PP118 - IL-17-mediated inflammation promotes cigarette smoke-induced genomic instability
Songmin Ying, Hangzhou, China

PP119 - Pneumococcal pneumolysin triggers cell-derived microvesicle release
Eleftheri Letsiou, Berlin, Germany

PP120 - The Micrometer 3D Characteristics of The Acinus
Ioannis Vogiatzis Oikonomidis, Bern, Switzerland

PP121 - Human rhinovirus infection impairs macrophage phagocytic capabilities
Jamil Jubrail, Paris, France

PP122 - Tumour Associated Macrophages from Human Lung Cancer that show activation of M1 functions, recruitment of CD8+ T cell by production of chemokines and strong anti-tumour activities are able to predict better survival
Eva Maria Garrido-Martin, Southampton, United Kingdom

PP123 - Inhibiting the inhibitor: How epigenetic silencing of BAMBI drives the TGF&beta; pathway to enhanced malignancy in human non-small cell lung cancer
Sebastian Marwitz, Borstel, Germany

PP124 - Role of AQP1 in tunneling nanotube (TnT) formation and mesothelial-mesenchymal transition (MMT) in malignant pleural mesothelioma (MPM)
Rajesh Jagirdar, Larissa, Greece

PP125 - Tenascin C knockout mice have an altered lung function at newborn and adult age
Tiziana Patrizia Cremona, Bern, Switzerland

PP126 - Investigating the role of cathepsin S in the pathogenesis of cystic fibrosis-like lung disease
Rebecca Delaney, Belfast, United Kingdom

PP127 - Effects of e-cigarette vapour condensate upon human alveolar macrophage function
Aaron Scott, Birmingham, United Kingdom

PP128 - A novel cell culture device to study the cross-talk between cells simultaneously exposed to different oxygenation mimicking hypoxic gradients in tumors
Isaac Almendros, Barcelona, Spain

PP129 - Antioxidant treatment can promote lung tumor formation during chronic oxidative stress
Marielle Breau, Cretiel, France

PP130 - Lung cancer detection using a novel hybrid method based on wavelet and fractal analysis and nonlinear adaptive resonance neural networks application
Mahsa Tahmasebi Ghorabi, Najafabad, Iran

PP131 - Targeting glucose metabolism in experimental lung injury and fibrosis
Ellen Forty, London, United Kingdom

PP132 - Scatter factors receptors MET and RON mutations in brain metastases from non-small-cell lung cancer
Giulia Stella, Pavia, Italy

PP133 - Treg depletion decelerates bleomycin-induced pulmonary fibrosis
Kaustav Chakraborty, Kolkata, India

PP134 - mTOR-mediated cap-dependent translation is essential for human lung myofibroblast differentiation and collagen I synthesis
Jessica D Eley, London, United Kingdom

PP135 - Changes in the extracellular matrix – signs of remodeling leading to chronic rejection after lung transplantation
Catharina Mueller, Lund, Sweden

PP136 - Inhibition of CFTR-specific miRNAs in CF bronchial epithelial cells
Chiara De Santi, Dublin, Ireland

PP137 - Proteasomal activator 200 (PA200) regulates cellular proliferation: A putative role for IPF and lung cancer pathogenesis
Vanessa Welk, Munich, Germany
PP138 - Lysosomal-associated membrane protein 1 (LAMP-1) upregulation in small airway epithelium of COPD may have physiological consequence and role in autophagy
Mathew Eapen, Hobart, Australia

PP139 - Distinct M1, M2 macrophage populations in airway tissues and lumen of COPD patients
Mathew Eapen, Hobart, Australia

From 19:30 Dinner for all delegates

Saturday 25 March 2017

Session 4: Stromal Similarities and synergies
Chairs: Erik Sahai and Laura Succony

08:45-09:05 FGFs in lung disease
Saverio Bellusci, Giessen, Germany

09:05-09:20 Discussion

09:20-09:35 OP07 - Mesenchymal stem cell therapy reduces inflammation and damage in a model of chronic lung disease
Doherty Declan, Belfast, United Kingdom

09:35-09:50 OP08 - Circulating fibrocytes depletion results in reduced lung tumor growth and metastasis by modulating macrophage phenotype, angiogenesis and endothelin system
Rajkumar, Savai, Bad Nauheim, Germany

09:50-10:10 EMT in development and disease
Angela Nieto, Alicante, Spain

10:10-10:25 Discussion

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

10:50-12:05 Young Investigator Session – The William MacNee Award
Chairs: Rachel Chambers and Pieter Hiemstra

10:50-11:05 YI01 - KRAS & TP53 mutations cause malignant mesothelioma
Anthi Krontira, Patras, Greece

11:05-11:20 YI02 - Re-education of tumor-associated macrophages by modulating histone deacetylases in lung cancer
Xiang Zheng, Bad Nauheim, Germany

11:20-11:35 YI03 - Mouse lung adenocarcinoma cell lines as tools to identify novel lung cancer genes
Nikolaos Kanellakis, Patras, Greece

11:35-11:50 YI04 - Targeting the mTOR signaling pathway to inhibit lung cell senescence in chronic obstructive pulmonary disease (COPD)
Amal Houssaini, Munich, Germany

11:50-12:05 YI05 - The role of the epigenetic regulator HMGN5 in COPD resulting from chronic lung injury
Gizem Gunes, Munich, Germany
PP201 - **RNA-Seq analysis reveals major differences between the effects of rapamycin and dual mTORC1/2 inhibition during TGFβ1-induced myofibroblast differentiation**
Manuela Platé, London, United Kingdom

PP202 - **Thyroid hormone inhibits pulmonary fibrosis through enhancement of mitochondrial function in alveolar epithelial cells**
Argyris Tzouvelekis, Athens, Greece

PP203 - **Antifibrotic effects of Nintedanib and Pirfenidone on alveolar epithelial cells in 2D and 3D culture**
Lara Buhl, Munich, Germany

PP204 - **Impact of in vitro expansion on the mesenchymal stem cell secretome and their use in Acute Respiratory Distress Syndrome**
Rahul Mahida, Birmingham, United Kingdom

PP205 - **Effect modification by diet on the relationship between lung cancer and ambient particulate air pollution**
Lida Gharibvand, Loma Linda, United States of America

PP206 - **DNA methylation alterations by carbon nanotubes in vitro**
Manosij Ghosh, Leuven Belgium

PP207 - **Functional gene polymorphisms of pro-inflammatory cytokines TNF-α and IL-17F and CO2**
Tanya Tacheva, Stara Zagora, Bulgaria

PP208 - **GSK-3 B inhibition suppresses lung cancer cell survival, metastasis and proliferation through down-regulation the phosphorylation sites of CAP1**
Changhui Wang, Shanghai, China

PP209 - **Secretion of inflammasome complexes highlights unconventional neutrophil activity: insight into cystic fibrosis**
Julie Laval, Tuebingen, Germany

PP210 - **The role of DICER in CD11c+ cells in smoke-induced inflammation**
Elise De Smet, Ghent, Belgium

PP211 - **Matrix metalloprotease-1 plays a detrimental role in the pathogenesis of pulmonary fibrosis**
Jan Willem Duitman, Paris, France

PP212 - **Interaction proteomics of the pulmonary extracellular matrix in fibrosis and repair**
Ieva Janulaityte, Kaunas, Luthania

PP213 - **Evaluation the effect of bronchoconstriction on airway epithelial cells responses in asthma**
Maria Ester Quesada del Bosque, Southmpton, United Kingdom
PP222 - The serum levels of alpha-1 antitrypsin are strongly associated with its local production by NSCLC tumor cells
Adam Szpechcinski, Warsaw, Poland

PP223 - Improving lung cancer treatment by reducing normal lung toxicity
Lorena Giuranno, Maastricht, The Netherlands

PP224 - A method for clonal expansion of human airway basal cells for genomic analysis
Kate Gowers, London, United Kingdom

PP225 - Igf1r deficiency attenuates acute inflammatory response in a bleomycin-induced lung injury mouse model
Sergio Piñeiro-Hermida, Logroño, Spain

PP226 - Reprogramming Of Tumor Associated Macrophages By Modulating Wnt/β-catenin Signalling In Lung Cancer
Poonam Sarode, Bad Nauheim, Germany

PP227 - Activin-A protects against lung cancer progression by potentiating anti-tumor immunity
Ioannis Morianos Athens, Greece

PP228 - The MERS coronavirus receptor DPP4 is increased in lungs of smokers and patients with COPD
Leen Seys, Ghent, Belgium

PP229 - Biological markers of survival and successful pleurodesis for malignant pleural effusion
Ioannis Psallidas, Oxford, United Kingdom

PP230 - N-acetylcysteine attenuates pulmonary fibrosis by inhibiting lung myofibroblast activation and altering TGF-β signaling
Soumya Chatterjee, Kolkata, India

PP232 - Investigating the role and biomarker potential of exosomes in pulmonary sarcoidosis
Casper Wahlund, Stockholm, Sweden

PP233 - High-throughput single cell mRNA sequencing reveals cell identity programs in the murine lung
Maximilian Strunz, Munich, Germany

PP234 - Profibrotic signaling by TGF-β involves NADPH oxidase 4 dependent activation of tyrosine kinase Src and mitochondrial ROS
Carmen Veith, Maastricht, The Netherlands

PP235 - Mechanisms of human lung repair: retinoic acid induces alveolar epithelial cell migration through VEGF Receptor-2-dependent microvascular angiogenesis
Joana Alçada, London, United Kingdom

PP236 - IL-1R1 but not IL-18Rbeta or IL-18BP contribute to the beneficial effects of IL-37 on experimental asthma
Alexandra Schröder, Borstel, Germany

PP237 - Tumor-associated macrophages promote inflammasome-dependent lung tumor progression in mice
Michela Terlizzi, Salerno, Italy

PP238 - Expression of PD1 and PD1 signalling in innate and adaptive T cell responses to NTHi
Joshua Wallington, Southampton, United Kingdom

PP239 - Epigenetic unbalance may increase lung cancer incidence in patients affected by idiopathic pulmonary fibrosis
Mariangela Natale, Coimbra, Portugal
Junior session: Successful funding applications and opportunities

Chairs: Saverio Bellusci and Nicolas Kahn

14:50-15:00 Introduction
15:00-15:20 ERS and EU Funding opportunities – Rory Morty, Giessen, Germany
15:20-15:40 ERC Grants – Stathopoulos Georgios, Munich Germany
15:40-16:00 Funding opportunities focused on flexible research careers – Janette K. Burgess, Groningen, The Netherlands
16:00-16:20 How to write a successful funding application? – Melanie Königshoff, Denver, USA
16:20-16:45 General discussion followed by a networking cocktail

Evening Pre-Dinner Talk

Chairs: Mina Gaga

Modeling Disease with Organoids
Robert Vries, Utrecht, The Netherlands

From 20:00 Gala Dinner and Award Ceremony

Sunday 26 March 2017

Session 5: Dovetailing drugs and targets
Chairs: Gary Anderson and Nikolaos Kanellakis

08:45-09:05 Immune checkpoint and COPD
Tom Wilkinson, Southampton, United Kingdom
09:05-09:20 Discussion

08:45-09:05 ER stress in chronic lung disease
Stefan Marciniak, Cambridge, United Kingdom
09:05-09:20 Discussion
09:55-10:20 Coffee

10:20-10:40 Dissecting chronic lung disease
Richard Marshall, GSK, Stevenage, United Kingdom
10:40-10:55 Discussion

10:55-11:15 Cell therapy for lung disease
Felix Hermann, Apceth, Munich, Germany
11:15-11:30 Discussion
11:30-11:45 Conclusion by Rachel Chambers, ERS Conferences and Seminars Director