Lung Science Conference

Mucosal immunology of the lung: balancing protective immunity and chronic inflammation

10-13 March 2022 – Estoril, Portugal

Scientific programme as of 24.02.2022

The conference is granted with 15 CME credits by the European Board for Accreditation on Pneumology (EBAP)

Thursday 10 March 2022

Opening Session
18:00-18:15  Welcome and Introduction
Reinoud Gosens, ERS Conferences and Seminars Director

18:15-19:00  Opening Lecture
Chair: Martijn Nawijn
“Cytokines: Orchestrating immune responses in lung disease” – Anne O’Garra (United Kingdom)

19:00-19:15  Discussion

19:15-20:30  Welcome “cheese and wine” cocktail

Friday 11 March 2022

Session 1: Lung Cell atlas in health and disease
Chairs: Martijn Nawijn and Janine Schniering

08:30-08:50  Healthy atlas of the human airways
Laure Emmanuel Zaragoisi (France)

08:50-09:05  Discussion

09:05-09:25  Integrated human lung cell atlas & Launch of the human cell atlas platform
Malte Lücken (Germany)

09:25-09:40  Discussion

09:40-09:55  OP01 – The multi-omics spatial lung atlas reveals new cell states and their functions in airway mesenchyme
Elo Madissoon (United Kingdom)

09:55-10:15  Local and systemic response to SARS-CoV-2 infection in children and adults
Kerstin Meyer (United Kingdom)

10:15-10:30  Discussion

10:30-10:50  Coffee break

Session 2: Tissue resident versus recruited immunity (part 1)
Chairs: Önder Yildirim and Chiara de Santi

10:50-11:10  Role of macrophages plasticity in chronic and infectious lung disease
Scott Budinger (USA)

11:10-11:25  Discussion

All timings are in Western European Time (WET)
11:25-11:40  OP02 – Macrophages acquire a TNF-dependent inflammatory memory in allergic asthma
Franziska Hartung (Germany)

11:40-12:00  Innate and adaptive immune responses to RV
René Lutter (Netherlands)

12:00-12:15  Discussion

12:15-12:30  OP03 – G-CSF drives pathophysiology of RV-induced allergic asthma exacerbations by potentiating neutrophilic inflammation and ILC2 function
Nicolella Bruno (United Kingdom)

12:30-12:45  OP04 – Identification of a host antiviral and anti-inflammatory metabolite that protects against influenza virus-driven morbidity and mortality
Mustapha Si-Tahar (France)

12:45-14:45  Lunch for all delegates and mentorship lunch discussion for bursary recipients and their mentors

Session 2: Tissue resident versus recruited immunity (part 2)
Chairs: Kerstin Meyer and Elza Evren

14:45-15:05  Tissue resident T cells in healthy and diseased lung
Donna Farber (USA)

15:05-15:20  Discussion

15:20-15:35  OP05 – A high probability of short-range interactions between fibrocytes and CD8+ T cells potentiates the inflammatory response in COPD
Edmée Eyraud (France)

15:35-15:50  OP06 – Gene signature for patient stratification: Lessons learned from IL-33 stimulated TH2 genes
Akshaya Keerthi Saikumar Jayalatha (Netherlands)

From 15:50 coffee will be served in the poster area

16:00-18:00  Poster Session 1
Group A - Chairs: Louise Donnelly and Merete Long

TP102 – A helminth glutamate dehydrogenase targets eicosanoid pathways to modulate type-2 immunity - Sina Bohnacker, Germany

TP103 – Characterization of neutrophilic responses in a pollutant-aggravated asthma mouse model - Joyceline De Volder, Belgium

TP104 – Post-COVID: The multimodal path to the right treatment strategy - Daniel Gagiannis, Germany

TP106 – Distinct metabolic reprogramming of airway epithelium in asthma in response to infection with rhinovirus - Mengting Huang, Switzerland

All timings are in Western European Time (WET)
TP107 – Innate immunity plays an important role during NTHI and RV sequential infection. - Yuqing Long, United Kingdom

TP108 – Antibiotic-induced microbial disruption drives metabolic rewiring in pulmonary macrophages and a dysregulated type 2 response in the lung - Elizabeth Mann, United Kingdom

TP109 – Monocyte migratory signatures identify acute and convalescent COVID-19 patients, and are associated with long COVID-19 symptoms - Laurence Pearmain, United Kingdom

TP110 – Phenotype and severity of asthma determines bronchial epithelial immune responses to a viral mimic - Celeste Michala Porsbjerg, Denmark

TP111 – Polymeric immunoglobulin receptor and immunoglobulin A system in an eosinophilic mouse model of chronic rhinosinusitis - Alba Sánchez Montalvo, Belgium

Group B - Chairs: Sejal Saglani and Juan-José Nieto Fontarigo

TP112 – The respiratory epithelium expresses ACE2 isoforms differentially in response to interferons: Implications for IFN-ß as COVID-19 therapy - Cornelia Blume, United Kingdom

TP113 – Specialized pro-resolving mediators’ biosynthesis by cystic fibrosis airway epithelial cells and their impact on mucociliary clearance - Maelle Briottet, France

TP114 – Spatial ECM proteomics resolves instructive tissue niches in the distal human lung - Yuexin Chen, Germany

TP115 – Insulin-like Growth Factor 1 Receptor facilitates NSCLC tumor growth acting in the tumor microenvironment - José Manuel García Pichel, Spain

TP116 – Lineage tracing of cells expressing the mesenchymal profibrotic transcription factor Prrx1 in the normal and fibrotic lung - Méline Homps-Legrand, France

TP117 – scRNA sequencing on human airway epithelium reveals transcriptional changes during healthy aging - Pavan Prabhala, Sweden

TP118 – Exploring IL13 effects on the remodeling of airway epithelial cell populations by single-cell RNA sequencing - Elisa Redman, France

TP119 – The chitinase-like protein Ym2 is an amplifier of innate type 2 responses - Ursula Smole, Belgium

TP120 – Local airway expression of Inc-SERPINA12-1 in children with Cystic Fibrosis - Zuzanna Stachowiak, Poland

TP121 – High-dimensional characterisation of the airway wall of paediatric patients with asthma and pre-school wheeze using Imaging Mass Cytometry - William Través, United Kingdom

eP374 - Radiation modulates bronchial epithelial progenitor activity as assessed in organoid formation assays - Merian Kuipers, Netherland

Group C - Chairs: Gisli Jenkins and Kornelija Suveizdyte

TP123 – Lung Cancer-Associated Fibroblasts in MHCII immunity: Understanding its Molecular Basis to Design Novel Immunotherapies – Ilias Angelidis, Greece

TP124 – The activity, function and exploitability of tumour-reactive CD8+T-cells in malignant pleural effusion. – Delaney Dominey-Foy, United Kingdom
TP125 – Mapping the Immune Response Diversity after Murine Lung Transplantation – Janne Kaes, Belgium


TP127 – Mitochondrial iron regulates AEC2 dysfunction, senescence and senescent associated secretory phenotype in response to bleomycin challenge. – Sarah Kenny, Ireland

TP128 – Broncho-vascular mesenchymal stromal cells guided spatiotemporal establishment of antibody secreting cell pro-survival niches in the lung – Vibha N. Lama, USA

TP129 – Pulmonary macrophage subsets associated with lung allograft dysfunction revealed by single-cell RNA sequencing – Sajad Moshkelgosha, Canada

TP130 – Hyaluronan (HA) accumulation following SARS-CoV-2 infection and in non-resolvable COVID-19 fibrosis – Andrew Peters, USA

TP132 – Myeloid cells immunomodulate tissue niches and promotes idiopathic pulmonary fibrosis – Valeria Viteri-Alvarez, Germany

TP133 – Patient derived malignant pleural effusion cell cultures as a platform to understand pleural malignancies and advance personalised treatment – Yu Zhao, United Kingdom

Group D - Chairs: Ian Adcock and Padmini Khedoe

TP134 – Circular RNA expression in cystic fibrosis bronchial epithelium – Chiara De Santi, Ireland

TP135 – Extracellular vesicles produced by airway epithelial cells from COPD patients contain miRNAs involved in cellular senescence – Justine Devulder, United Kingdom

TP136 – Effects of blocking TSLP on ILC and T cell subpopulations in patients with asthma – Nanna Dyhre-Petersen, Denmark

TP137 – Construction of a 3D innervated bronchial epithelium from human induced pluripotent stem cells iPSC – Florent Foisset, France

TP138 – Alveolar macrophages from people with severe eosinophilic asthma show differential antiviral responses to human rhinovirus 16 and SARS-CoV-2. – Andrew Hearn, United Kingdom

TP139 – Regulation of MHC I expression in lung epithelial cells during inflammation. – Justine Mathé, Canada

TP140 – Effect of eosinophilopoetins on proliferative properties of blood eosinophil subtypes in allergic asthma - Jolita Palacionyte, Lithuania

TP141 – Kynurenine pathway as a modulator of inflammation in COPD and its exacerbations. - Odile Poulain-Godefroy, France

TP143 – Inhibiting RIPK1 kinase activity is protective in experimental models of COPD - Hannelore P. Van Eeckhoutte, Belgium

TP144 – Cigarette smoke modulates cellular responses of differentiated human bronchial epithelial cells to rhinovirus-A16 infection - Ying Wang, Netherlands

From 19:30 Dinner for all delegates

All timings are in Western European Time (WET)
### Saturday 12 March 2022

**Session 3:**  Trained immunity  
**Chairs:** Donna Farber and Gesa Albers  

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:45-09:05</td>
<td>Inducible bronchus associated lymphoid tissue drives immunity in COPD</td>
<td>Önder Yildirim (Germany)</td>
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<td>Discussion</td>
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<td>09:05-09:20</td>
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<td>09:20-09:35</td>
<td>OP07 – Inflammatory blood neutrophils in COPD stem from activated bone marrow progenitors</td>
<td>Theodore Kapellos (Germany)</td>
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<td>09:35-09:55</td>
<td>Trained immunity and allergy: State of the art and future perspectives</td>
<td>Uta Jappe (Germany)</td>
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<td>09:55-10:10</td>
<td>Discussion</td>
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<td>10:10-10:25</td>
<td>OP08 – COPD Monocyte-derived macrophages display hallmarks of senescence</td>
<td>Shyreen Hassibi (United Kingdom)</td>
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<td>10:25-10:55</td>
<td>Group Picture and Coffee Break</td>
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<td>10:55-12:10</td>
<td><strong>Young Investigator Session – The William MacNee Award</strong></td>
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<td><strong>Chairs:</strong> Silke Meiners and Ilias Angelidis</td>
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<td>10:55-11:10</td>
<td>YI01 – Human CD116+ fetal liver progenitors migrate to the perinatal lung and give rise to alveolar macrophages in vivo</td>
<td>Elza Evren (Sweden)</td>
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<td>11:10-11:25</td>
<td>YI02 – The potential role of innate lymphoid cells in non-allergic neutrophilic asthma model</td>
<td>Anne-Charlotte Jonckheere (Belgium)</td>
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<td>11:25-11:40</td>
<td>YI03 – A novel IgA plasma cell niche in the human airways</td>
<td>Amanda Oliver (United Kingdom)</td>
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<td>11:40-11:55</td>
<td>YI04 – d Influenza infection of epithelial cells alters extracellular vesicle microRNA involved in viral replication and the immune response</td>
<td>Laura Reid (United Kingdom)</td>
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<td>11:55-12:10</td>
<td>YI05 – Resolving aging-related cellular phenotypes in pulmonary fibrosis by longitudinal single-cell transcriptomics</td>
<td>Janine Schniering (Germany)</td>
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<td>12:15-13:30</td>
<td>Lunch</td>
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All timings are in Western European Time (WET)
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**13:30-15:30**  **Poster Session 2**

**Group E - Chairs: James Chalmers and Mengting Huang**

TP201 – Sphingosine-1-phosphate drives sex-dimorphism in lung function - Ida Cerqua, Italy

TP202 – Targeting CXCR4 as a therapeutic strategy to improve outcomes in a mouse model of early chronic obstructive pulmonary disease (COPD) - Isabelle Dupin, France

TP203 – Reactivation of latent virus infection links air pollutants to chronic lung disease - Verena Haefner, Germany

TP204 – No differences in cytokine responses to moderate-intensity exercise in -10°C versus 10°C. - Helen Hanstock, Sweden

TP205 – Different Effects of Inhaled Corticosteroids on Infiltrating Mast Cells in Type 2 High and Type 2 Low Asthma - Morten Hvidtfeldt, Denmark

TP206 – Real time in vivo investigation of the innate immune response during ventilator-assisted nanoparticle inhalation - Qiongliang Liu, Germany

TP207 – Elevated ferritin is associated with systemic inflammation, inflammasome activation and mortality in Acute Respiratory Distress Syndrome (ARDS) - Puja Mehta, United Kingdom

TP208 – Effects of probiotics in uncontrolled asthma - Catherine Moermans, Belgium

TP209 – Budesonide reduces the bronchial epithelial response to a viral mimic in T2high asthma, and boosts anti-microbial responses in T2low asthma - Juan-José Nieto-Fontarigo, Sweden

TP211 – Inhaled continuous exposure to farmyard microbes suppress type 2 inflammation in a neonatal murine model of viral-induced wheeze and asthma - Kunyuan Tian, United Kingdom

**Group F - Chairs: Scott Budinger and Theodore Kapellos**

TP212 – Allergen exposure induces airway macrophage metabolic reprogramming - Gesa J Albers, United Kingdom

TP213 – Mast cell tryptase contribute to airway remodelling by inducing pro-survival and cell growth properties in lung epithelial cells - Frida Berlin, Sweden

TP214 – The memory of airway epithelium damage in smokers and COPD patients - François Carlier, Belgium

TP215 – Human lung microbiota drives differential innate immune response - Sudip Das, Switzerland

TP216 – Expression of miR-185-5p, miR-146b-5p, miR-320b, miR-21-5p in Blood Eosinophil Subtypes and Plasma in Allergic Asthma Patients - Egle Jurkeviciute, Lithuania

TP217 – The role of IGF2BP3 in Type 2 signalling in bronchial epithelium: a novel player in severe asthma - Paniz Khooshemehri, United Kingdom

TP218 – IL-13 modulates exosome production and miRNAs cargo in bronchial epithelial cells in severe asthma - Martin Klein, Canada

TP219 – Function-specific IL17A and Dexamethasone interactions in primary human airway epithelial cells - Siti Farah Rahmawati, Netherlands
TP220 – Impact of treatments targeting the GM-CSF pathway on the functions of human pulmonary macrophages - Hélène Salvator, France

TP221 – Generation of apical-out airway organoids from human primary airway epithelial cells - Georgios Stroulios, United Kingdom

TP222 – NTHi-IAV coinfection of macrophages alters infection outcomes and inflammatory responses - Karl Staples, United Kingdom

TP223 – Pseudomonas aeruginosa modulates mucosal immune response to rhinovirus infection in an in-vitro chronic infection model - Adrian Endres, Germany

TP224 – NTHi-IAV coinfection of macrophages alters infection outcomes and inflammatory responses - Karl Staples, United Kingdom

TP225 – Chronic Bacterial Airways Infection in Severe Asthma - Maisha Jabeen, United Kingdom

TP226 – The Cathelicidin LL-37 and microbial dysbiosis in COPD patients receiving inhaled corticosteroids - Holly Rachael Keir, United Kingdom

TP227 – Ex vivo modelling of human lung fibrogenesis and drug mode of action screens using single-cell RNA-seq in precision-cut lung slices - Niklas Lang, Germany

TP228 – G-protein coupled receptor 87 is a novel basal cell marker in distal IPF bronchioles - Mareike Lehmann, Germany

TP229 – Profiling systemic inflammation and neutrophil function in hospitalized patients with COVID19: results from PREDICT-COVID19 - Merete Long, United Kingdom

TP230 – The microbiota plays a critical role in the reactivity of lung immune components to innate ligands - Quentin Marquant, France

TP231 – Modulation of antiviral responses to rhinovirus by the nonsense mediated decay pathway and implications in rhinovirus-induced exacerbations - Rocio Teresa Martinez-Nunez, United Kingdom

TP232 – Extracellular vesicles and soluble factors secreted by lung fibroblasts support alveolar organoid formation - Luke Van Der Koog, Netherlands

TP233 – Single cell transcriptomic dissection of virus induced immunopathology in interferon gamma receptor null mice - Lin Yang, Germany

TP234 – Support of human alveolar organoid growth by pulmonary endothelial cells: possible influence of cigarette smoke exposure - Abilash Ravi, Netherlands

Group G - Chairs: Didier Cataldo and Elo Madissoon

Group H - Chairs: Hermelijn Smits and Andrew Hearn

All timings are in Western European Time (WET)
TP241 – Overzealous degradation of collagen fragment Pro-Gly-Pro by leukotriene A4 hydrolase (LTA4H) perpetuates fibrosis in IPF - Kornelija Suveizdyte, United Kingdom

TP242 – Mitochondrial DNA stress in lung parenchymal cells activates autoreactive CD8+ T cells - implications for pulmonary fibrosis - Silke Meiners, Germany

TP244 – Cigarette smoke and air pollution induce dysfunctional pulmonary microvascular endothelial repair - Xinhui Wu, Netherlands

From 15:00 coffee will be served in the poster area

17:00-19:30 Early-Career delegates session – Tools for career development
Chairs: Niki Ubags and Holly Keir

17:00-17:10 Introduction
Niki Ubags (Switzerland)

17:10-17:30 Effective teaching and mentoring: where to start?
Agnes Boots (Netherlands)

17:30-17:40 How to collaborate successfully (industry vs academic perspective) – part 1
Alexander Mackay (Sweden)

17:40-17:50 How to collaborate successfully (industry vs academic perspective) – part 2
Rachel Chambers (United Kingdom)

17:50-18:10 Transferable skills: you are more than ‘just’ a scientist! - remotely
Verity Elston (Switzerland)

18:10-18:30 Setting the scientific playfield outside academia: a career in scientific editing - remotely
Timothy Powell (United Kingdom)

18:30-19:30 Panel discussion and networking event

19:30-20:00 Evening Pre-dinner talk
Chair: Chris Brightling
“Beyond Covid-19” – Petter Brodin (Sweden)

20:00 Award Ceremony

From 20:15 Dinner for all delegates

All timings are in Western European Time (WET)
Sunday 13 March 2022

Session 4: The mucosal immunity in the lung and infections
Chairs: Anne O’Garra and Amanda Oliver

08:45-09:05 Virus provided protection against allergic asthma
Laurent Gillet (Belgium)
09:05-09:20 Discussion

09:20-09:40 How host-commensal interactions can shape mucosal immune responses
Hermelijn Smits (Netherlands)
09:40-09:55 Discussion

09:55-10:15 Coffee break

Session 5: Cytokine targeted therapies / personalized medicine in the context of (chronic) respiratory diseases
Chairs: Florence Schleich and Puja Mehta

10:15-10:35 Cytokines targeted therapies in asthma versus COPD
Guy Brusselle (Belgium)
10:35-10:50 Discussion

10:50-11:10 Precision medicine: New biomarkers and targets beyond T2 inflammation
Chris Brightling (United Kingdom)
11:10-11:25 Discussion

11:25-11:45 Role of lung microbiome in airway diseases
James Chalmers (United Kingdom)
11:45-12:00 Discussion

12:00-12:15 Conclusion by Reinoud Gosens, ERS Conferences and Seminars Director

12:15 Lunch and departure

Access LSC resources on the virtual platform from Monday 28 February

All timings are in Western European Time (WET)
Exclusively online - ePosters:
eP301 - In Vitro Simulation of Aerobic Exercise Effects in Neutrophils in Severe Asthma: Involvement of Kinins - Maysa A. R. Brandao-Rangel, Brazil

eP302 - Aerobic exercise modulates the phenotype of severe asthma: the role of Kinins - Maysa A. R. Brandao-Rangel, Brazil

eP303 - The level of sIgA in nasal secretions and the incidence of complications in hospitalized patients with COVID-19 against an immunotropic drug - N. D. Abramova, Russian Fed.

eP304 - CT scan imaging in acute infectious infiltrative lung disease before the covid-19 era - Meriem Affes, Tunisia

eP305 - Efficacy of vitamin D on chronic obstructive lung disease (COPD): a systematic review - Syed Morsalin Ahmed, United Kingdom


eP307 - Mitochondrial alterations in T cells after invivo and invitro smoke exposure - Vidya Srokshna Balasubramanian Lakshmi, Germany

eP308 - Serum Levels of Surfactant Protein-B (SP-B) as biomarker in IPF and ILD-SSc - Gabriele Bartoli, Italy

eP309 - Single-cell analysis reveals airway epithelial cell-specific expression quantitative trait loci in asthma - Marijn Berg, Netherlands

eP310 - NK and T cell in patients with end-stage lung disorders waiting for lung transplantation in response to CMV infection. - Laura Bergantini, Italy


eP312 - Receptor-binding domain of SARS-CoV-2 facilitates internalization of 100 nm particles by neutrophils in conducting airway mucosa of mice. - Elena Bolkhovitina, Russian Fed.

eP314 - Therapeutic potential of mesenchymal stem cells in the restoration of local immune homeostasis for transitional phase pneumonia-induced sepsis - Declan Byrnes, Ireland

eP315 - Eosinophilic exacerbations of chronic obstructive pulmonary disease (COPD) have elevated reactive oxygen species (ROS) release - James Camp, United Kingdom

eP316 - The metabolite succinate inhibits influenza virus replication through succinylation and nuclear retention of the viral nucleoprotein - Adeline Cezard, France

eP317 - The glycosylated extracellular domain of MUC1 protects against SARS-CoV-2 infection at the respiratory surface - Maitrayee Chatterjee, Netherlands

eP318 - Ionic Calcium in Blood as Early Marker of Severity in Patients with COVID-19 - Jorge Nelson Chung Ching, Peru

eP320 - Novel nasal virosome spray vaccine to protect against COVID-19 - Tiziana Patrizia Cremona, Switzerland

eP321 - Impact of cigarette smoke on caspases activation and gasdermin D cleavage in human macrophages - Marta Cristaldi, Italy

eP322 - Effect of Bromhexine among COVID-19 Patients - A Meta-Anaylsis - Anna rossa magda Cuerdo, Philippines


eP324 - Immune-Checkpoint expression on CD4, CD8 and NK cells in blood, BAL and lymph nodes of sarcoidosis - Miriana D'Alessandro, Italy

All timings are in Western European Time (WET)
eP325 - Source-related composition and toxicological effects of shipping-associated particulate matter - Lareb Dean, United Kingdom

eP326 - Diesel exposure favors lung cancer progression through induction of an inflammatory microenvironment. - Marie-Laure Delhez, Belgium

eP327 - Correlations between volumetric capnography and automated computed tomography quantitative analysis in patients with severe COPD - Odair Diniz, Brazil

eP328 - Cigarette smoke extract promotes caspase-1 activation and IL-18 release in primary human bronchial epithelial cells. - PAOLA DINO, Italy

eP329 - The impact of virus infection on the development of Bronchopulmonary Dysplasia (BPD) - Anna Dmitrieva, Germany

eP331 - Chronic unpredictable stress exacerbates allergic airway inflammation in mice. - Guiltherme Dragunas, Netherlands

eP332 - Cigarette smoke alters macrophage mitochondrial iron handling in COPD - Lynne Faherty, Ireland

eP333 - Physiomimetic culture of mesenchymal stromal cells affects macrophage activity in a paracrine manner. - Bryan Falcones, Sweden

eP334 - Features of submicroscopic structure of respiratory part of lungs in early stages of development of streptozotocin-induced diabetes mellitus - Yuliya Fedorchenko, Ukraine

eP335 - Bronchiectasis in severe asthma is associated with eosinophilic airway inflammation and activation - Laurits Fressing, Denmark

eP336 - Using lung organoids to recapitulate HRas/NRas-double knockout alveolar maturation defects in mice - Rocio Fuentes-Mateos, Spain

eP337 - A study to evaluate nasal mucosal IgA development in neonates using a non-invasive sampling method - Genevieve Po Gee Fung, Hong Kong

eP338 - Decreased expression of S100A7/A8/A9 in severe asthmatics following bronchial thermoplasty. - Pierre-Alexandre Gagnon, Canada

eP339 - Cooperation between fatty acid binding protein 5 and peroxisome proliferator-activated receptor ? in regulating macrophage programming - Fabienne Gally, USA

eP340 - Understanding the cellular immune response in silicosis by exposing human lymphocytes to silica nanoparticles - Nirosha Ganesan, Belgium

eP341 - Synergistic action of apoptotic cells and surfactant protein A in boosting IL-4-dependent alternative activation of alveolar macrophages. - Belen Garcia-Fojeda, Spain

eP342 - Transcriptional response to RSV in asthma primary bronchial epithelial cells: are the basal cells responsible for the reduced NF-kB response? - Aurore Gay, Netherlands

eP343 - Lung volume and density assessment over time in hospitalized COVID-19 patients - Vincent Geudens, Belgium

eP344 - Involvement of FGF21 in pulmonary fibrosis - Mada Ghanem, France

eP345 - Prenatal exposure to ozone triggers development of lung diseases in offspring - Alison Gillard, Belgium

eP346 - Exploring the anti-inflammatory effect of commensal lung microbiota members in a 3-D lung epithelial cell model - Ellen Goeteyn, Belgium

eP348 - Human mast cell differentiation optimization to study MRGPRX2-induced activation in vitro - Janne Goossens, Belgium

eP349 - Human plasma-derived IgG protects against respiratory pathogens in an epithelial air-liquid interface model - Stefanie Graeter, Switzerland

All timings are in Western European Time (WET)
eP350 - Diesel exhaust particles and TNF-alpha or LPS induce pro-inflammatory pathways, including TSLP expression, in bronchial epithelial cells - Fien Gysens, Belgium

eP351 - End stage lung disease is characterized by a pro-inflammatory imbalance in the innate lymphoid cell compartment. - Olga Halle, Germany

eP352 - Environmental Nanoparticle Exposure Triggers Herpesvirus Reactivation via MAPK Signaling Pathway - Liangyong Han, Germany

eP353 - Average Volume Assured Pressure Support Auto-titrating EPAP(AVAPS-AE) mode in Lung Cancer Patients with Respiratory Failure - BoXue Han, China

eP354 - Nasal mucosal lining fluid (MLF) biomarkers for monitoring acute and chronic respiratory disease - Sarah Harbach, United Kingdom


eP356 - Systematic review and meta-analysis of interstitial lung disease transcriptomics - Daniel He, Canada

eP357 - COVID-19 and smoking: Worse outcome from a surveillance analysis - Gholamreza Heydari, Iran

eP358 - A novel non-invasive approach to quantify microRNA expression in nasal fluid from COPD patients using a microfluidic platform - Vanessa Ho, United Kingdom

eP359 - Relations between blood and tissue microbiome in sarcoidosis patients - Yordan Hodzhev, Bulgaria

eP360 - Novel alveolar macrophage-like model (ImmuPHAGE) as a platform for better mechanistic understanding for the fate of inhaled medicines. - Ewelina Hoffman, United Kingdom

eP361 - Community-based asthma assessment in young children: Adaptations for a multicentre longitudinal study in South Asia - Mohammad Shahidul Islam, Bangladesh

eP362 - Interleukin-10 expressing regulatory B cells are decreased in blood of smokers and COPD patients - Merel Jacobs, Belgium

eP363 - Ferroptosis, induced by macrophages drives COPD pathogenesis - Aicha Jeridi, Germany

eP364 - Epigenetic modulation of TLR-driven inflammatory responses in airway epithelial cells - Akhilesh Jha, United Kingdom

eP365 - Exosomes from EGFR-mutated adenocarcinoma induce a partial/hybrid EMT - Amina JOUIDA, Ireland

eP366 - The bacteriology of pleural infection using next generation sequencing: The Oxford Pleural Infection Metagenomics Studies (TORPIDS) - Nikolaos I. Kanellakis, United Kingdom

eP367 - Multi-omics analysis reveals the NAD+ salvage pathway as defense mechanism against Streptococcus pneumoniae infection - Björn Klabunde, Germany

eP368 - DNA-viruses modulates changes in B cells phenotype and auto-Abs in asthma. - Anna Konishcheva, Russian Fed.

eP369 - Eosinophil-associated gene signature expression in U-BIOPRED severe asthma - Janice Koranteng, United Kingdom

eP370 - Background of the use of lyophilized dialysate leukocytes (DLL) in ASIT in patients with seasonal allergic rhinitis - Ieliena Koretskaia, Ukraine

eP371 - IL11 negatively impacts adult lung alveolar organoid formation - Rosa K. Kortekaas, Netherlands


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Inhibition of histone deacetylase activity reduces pulmonary vascular remodeling and inflammation in experimental pulmonary hypertension - Konda Babu Kurakula, Netherlands

Epithelial and neutrophil responses to microbes in cystic fibrosis airways - Daniel Laucirica, Australia

Characteristics of DNA repair capacity of peripheral blood lymphocytes from asthmatic patients with different phenotypes and severity - Andrey Evgenievich Lintsov, Russian Fed.


Phenotype and function of innate lymphoid cells in a murine model of impaired mucociliary clearance challenged with allergen - khatuna Lobjanidze, Germany

Unravelling the role of miR-223 in the regulation of pollutant-aggravated allergic airway inflammation - Tania Maes, Belgium

Respiratory and systemic effect of diet and exercise in obese mice - Fopke Marain, Belgium

The RNA binding proteins ZFP36L1 and ZFP36L2 exert genome-wide effects on airways epithelium and glucocorticoid responses - Rocio Teresa Martinez-Nunez, United Kingdom

Production and delivery of a recombinant modified superoxide dismutase protein to a rodent ARDS model by vibrating mesh nebulisation - Sean McCarthy, Ireland

Validation of CXCL10 as a biomarker of respiratory tract infections detectable by lateral flow immunocassay - Dayna Mikkelsen, Canada

High-sensitivity TSLP assay demonstrates a role of TSLP in eosinophilic and non-eosinophilic asthma. - Louise Munkholm Andreasson, Denmark

Meta-analysis on novel biomarker use in lung cancer screening - Sahraoui Nassima,

Favipiravir induced rhabdomyolysis in patient with severe COVID-19 pneumonia - Nurgul Naurzvai, Turkey

IL-10 induced by alum-adjuvanted acellular pertussis vaccine reduces its capacity to induce protective respiratory tissue-resident CD4 T cells - Caitlín Ní Chasaide, Ireland

Persistent COVID-19 symptoms and quality of life among the Dutch pediatric population - Lieke Noij, Netherlands

Altered eicosanoid profile in association with nasal polyp severity in patients with chronic rhinosinusitis - Axel Nordström, Sweden

Airway hyperreactivity and type of acetylation as the predictors of eosinophilic asthma in school-age children - Yevehniya Ortemenka, Ukraine

Influence of the long-term usage of inhaled corticosteroids on development of obesity and growth retardation in children with bronchial asthma - Yevehniya Ortemenka, Ukraine

A human ex vivo model to study the innate immune response to NTHi in the lung - Lee Page, United Kingdom

Alteration of lung defense mechanisms after exposure to urban coarse PM leads to infection by Streptococcus pneumoniae - Muriel Pichavant,

Allergic risk factors for severe asthma among preschool children: a descriptive-analytical study from rural Sri Lanka - Shashanka Indeevera Rajapakse Rajapakse Mudiyanselage, Sri Lanka

Comparing epithelial alarmin responses to different aeroallergens in bronchial epithelial cells from allergic asthma patients - Sangeetha Ramu, Sweden

Development of novel alveolar and bronchial microphysiological systems for use in disease research and drug development. - Emily Richardson, United Kingdom

All timings are in Western European Time (WET)
eP398 - Tissue resident memory T cells are increased in the lungs of COPD patients - Bradley Richmond, USA

eP399 - Club cells are the primary source of plgR in small airways - Bradley Richmond, USA

eP400 - Seroprevalence of SARS-CoV-2 immunoglobulins in a community-based population in Tizi-Ouzou, Algeria - Salim Sadi, Algeria

eP402 - Farm dust exposure decreases expression of IL-33 in primary bronchial epithelial cells in part by inhibiting STAT1 phosphorylation - Jasmijn A. Schrumpf, Netherlands

eP403 - Multi-omic profiling of lung inflammation in early life cystic fibrosis - Shivanthan Shanthikumar, Australia

eP404 - Lung tuberculosis characteristics in association with herpesvirus infection - Alexey Shibanov, Russia

eP405 - Haemophilus influenzae is associated with fibrotic phenotype of COVID-19 and idiopathic pulmonary fibrosis. - Pooja Shivshankar, USA

eP406 - LDH inhibition rescues pulmonary fibrosis features in human primary cellular models of IPF - Wioletta Skronska-Wasek, Germany

eP407 - Inhalable textile microplastic fibers impair lung repair - Shanshan Song, Netherlands

eP408 - The impact of nasal colonization with Staphylococcus aureus and its enterotoxin B on allergic airway inflammation in patients and mouse models - Sabine Stegemann-Koniszewski, Germany

eP409 - Profibrotic and proinflammatory pulmonary response to bleomycin in a Swiss nude mice model - Kristiyan Stiliyanov Atanasov, Spain

eP410 - Course of lung inflammation and injury caused by nanoparticle inhalation depends on material specific cellular perturbation pattern - Tobias Stoeger, Germany

eP412 - Altered hyaluronan metabolism in response to IL1ß in the lung microenvironment is associated with defective repair - Vasili Stylianidis, Netherlands

eP413 - IgA-reflected mucosal immunity in patients with bronchiectasis (Bx) - Kseniia Suska, Ukraine

eP414 - The bronchodilatory and anti-inflammatory effect of TRPV4 ion channels blocker in experimentally-induced allergic asthma. - martina šutovská, Slovakia

eP415 - Investigation of the interplay of pattern recognition receptors in IFN responses in bronchial epithelial cells from asthma patients - Sofia Magdalena Tillgren, Sweden

eP416 - The role of mucosal IgE and cytokine levels in reflecting the intensity of allergic symptoms - Joseph G S Tsun, Hong Kong

eP417 - Igf1r deficiency attenuates lung inflammation in a mice model of sub-chronic cigarette smoke exposure - Alfredo Urtubia, Spain

eP418 - Association between serum IgG levels and time to first antibiotic prescription in COPD patients - Anna Vanoverschelde, Belgium

eP419 - Partial apoptosis of epithelial cells in Idiopathic Pulmonary Fibrosis(IPF). - Eirini Vasarmidi, France

eP420 - Exosomal miR16, miR21, miR126, miR146a and miR215 as biomarkers for asthma severity - Sara Vázquez Mera, Spain

eP421 - IL1ß induces RANKL secretion in control but not COPD lung fibroblasts - Jelmer Vlasma, Netherlands

eP422 - One drug to rule them all: Targeting host cell metabolic pathway to combat respiratory infections - Laxmikant Wali, Austria

eP423 - Mucosal immunology of the gut and lung in a cigarette smoke-induced murine model for COPD: the lung-gut axis - Lei Wang, Netherlands

eP424 - Deep learning in pulmonary drug delivery - Lin Yang, Germany

All timings are in Western European Time (WET)
eP425 - Fibroblasts drive the differentiation of murine pneumocytes in air-liquid interface cultures - yiwen yao, Germany

eP426 - Prevalence and associated risk factors of post covid-19 interstitial lung disease; An emerging challenge to pulmonologists - Duminda Yasaratne, Sri Lanka

eP427 - Outpatient antibiotic therapy leads to endotoxemia markers elevation in acute SARS-CoV-2 lung damage - Igor Yatskov, Ukraine

eP428 - Local and systemic responses to SARS-CoV-2 infection in children and adults - Masahiro Yoshida, United Kingdom

TP122 – Exploring the role of infection experienced lung stromal cells following re-challenge with influenza A virus - Julie Worrell, United Kingdom

TP210 – Differential toxicity in an alveolar epithelial cell line of fine particulate matter from brakewear, roadwear, and diesel exhaust - James Parkin, United Kingdom

TP131 – Biosynthesis and implementation of Thyroid Receptor beta (TRβ) agonists (thyromimetics) for the treatment of pulmonary fibrosis – Argyris Tzouvelekis, Greece

TP101 – Longitudinal impact of conjugated pneumococcal vaccine (PCV13) on cytokine profile in different asthma phenotypes - Kostinov Anton, Russian Fed.

TP105 – Pulmonary In Vitro Perfusion (PIPE) Model to Study Cellular Crosstalk in Neonatal Pulmonary Vascular Disease - Motaharehsadat Heydarian, Germany

Access LSC resources on the virtual platform from Monday 28 February

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