



ERS

20th ERS LUNG SCIENCE CONFERENCE

Lung Science Conference

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

10-13 March 2022 – Estoril, Portugal

Scientific programme as of 13.01.2022

Thursday 10 March 2022

LIVE

Opening Session

Chair: Reinoud Gosens

18:00-18:15

Welcome and Introduction

Reinoud Gosens, ERS Conferences and Seminars Director

18:15-19:00

Opening Lecture

“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

LIVE

Session 1:

Lung Cell atlas in health and disease

08:30-08:50

Healthy atlas of the human airways

Laure Emmanuel Zaragosi (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 Madisson (United Kingdom)

09:55-10:15

Exploring cell-cell interactions at a newly defined IgA immune niche at the submucosal glands: novel roles for pericytes and duct cells

Kerstin Meyer (United Kingdom)

10:15-10:30

Discussion

10:30-10:50

Coffee break

LIVE

Session 2:

Tissue resident versus recruited immunity (part 1)

10:50-11:10

Role of macrophages plasticity in chronic and infectious lung disease

Scott Budinger (USA)

11:10-11:25

Discussion

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- 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**
Nicoletta 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**
Adeline Cezard (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)

- 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

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

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

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

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](#)

TP112 – The respiratory epithelium expresses ACE2 isoforms differentially in response to interferons: Implications for IFN- β 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 Traves, United Kingdom

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



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Group C

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

TP126 – Differential expression of PD-1/PD-L1 axis in mediastinal lymph nodes of experimental and human lung fibrosis - Theodoros Karampitsakos, Greece

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

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

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

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



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

TP142 – Activation of epithelial RIG-I inflammasome leads to sustained antiviral response and modification of SARS-CoV-2 infection in asthma - Urszula Radzikowska, Switzerland

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

Saturday 12 March 2022

LIVE	Session 3:	Trained immunity
	08:45-09:05	Inducible bronchus associated lymphoid tissue drives immunity in COPD Önder Yildirim (Germany)
	09:05-09:20	Discussion
	09:20-09:35	OP07 – Inflammatory blood neutrophils in COPD stem from activated bone marrow progenitors Theodore Kapellos (Germany)
	09:35-09:55	Trained immunity and allergy: State of the art and future perspectives Uta Jappe (Germany)
	09:55-10:10	Discussion
	10:10-10:25	OP08 – COPD Monocyte-derived macrophages display hallmarks of senescence Shyreen Hassibi (United Kingdom)
	10:25-10:55	<i>Group Picture and Coffee Break</i>
LIVE	10:55-12:10	Young Investigator Session – The William MacNee Award
	10:55-11:10	YI01 – Human CD116+ fetal liver progenitors migrate to the perinatal lung and give rise to alveolar macrophages in vivo Elza Evren (Sweden)
	11:10-11:25	YI02 – The potential role of innate lymphoid cells in non-allergic neutrophilic asthma model Anne-Charlotte Jonckheere (Belgium)
	11:25-11:40	YI03 – A novel IgA plasma cell niche in the human airways Amanda Oliver (United Kingdom)

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11:40-11:55 **Y104 – d Influenza infection of epithelial cells alters extracellular vesicle microRNA involved in viral replication and the immune response**

Laura Reid (United Kingdom)

11:55-12:10 **Y105 – Resolving aging-related cellular phenotypes in pulmonary fibrosis by longitudinal single-cell transcriptomics**

Janine Schniering (Germany)

12:15-13:30 **Lunch**

13:30-15:30 **Poster Session 2**

Group E

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

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

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

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



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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 - H  l  ne Salvator, France

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

TP222 – Intracellular Sphingosine-1-Phosphate is involved in lung cancer cells proliferation - Michela Terlizzi, Italy

[Group G](#)

TP223 – NTHi-IAV coinfection of macrophages alters infection outcomes and inflammatory responses - Jodie Ackland, United Kingdom

TP224 – Pseudomonas aeruginosa modulates mucosal immune response to rhinovirus infection in an in-vitro chronic infection model - Adrian Endres, Germany

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



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Group H

TP234 – In Vitro Simulation of Aerobic Exercise Effects in Eosinophils in Severe Asthma: Involvement of Kinins - Maysa A. R. Brandao-Rangel, Brazil

TP235 – Lung surfactant lipids reduce the alternative activation and proliferation of alveolar macrophages induced by IL-4 - Cristina Casals, Spain

TP236 – Monocyte migration and COPD pathogenesis are epigenetically regulated by PRMT7 - Aicha Jeridi, Germany

TP237 – High-resolution transcriptomic and epigenetic profiling across disease stages identifies novel regulators of COPD phenotypes. - Renata Jurkowska, United Kingdom

TP238 – Biomarker identification to assess effects of bone-marrow derived mesenchymal stromal cell-therapy in emphysema through immune profiling - Padmini P. S. J. Khedoe, Netherlands

TP239 – An ex vivo model of cellular senescence and inflammaging in precision-cut lung slices – Maria Camila Melo Narvaez, Germany

TP240 – Support of human alveolar organoid growth by pulmonary endothelial cells: possible influence of cigarette smoke exposure - Abilash Ravi, Netherlands

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 - Xinyuan Wang, China

TP243 – A transcriptomic and phenotypic study of the anti-fibrotic effects of Prostaglandin E2 in IPF lung fibroblasts and macrophages - Kristin Wiquist, Sweden

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
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! Verity Elston (Switzerland)

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18:10-18:30 **Setting the scientific playfield outside academia: a career in scientific editing**

Timothy Powell (United Kingdom)

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

19:30-20:00 **Evening Pre-dinner talk**

“Beyond Covid-19” – Petter Brodin (Sweden)

From 20:00 Gala Dinner and Award Ceremony

Sunday 13 March 2022

LIVE

Session 4: **The mucosal immunity in the lung and infections**

08:45-09:05 **Virus provided protection against allergic asthma**

Laurent Gillet (Belgium)

09:05-09:20 Discussion

09:20-09:40 **How cells protect themselves against aberrant immune responses**

Hermelijn Smits (Netherlands)

09:40-09:55 Discussion

09:55-10:15 *Coffee break*

LIVE

Session 5: **Cytokine targeted therapies / personalized medicine in the context of (chronic) respiratory diseases**

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

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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
- eP306 - The biological activity of interferons in post-COVID syndrome - Lidia Arifullina, Russian Fed.
- eP307 - Mitochondrial alterations in T cells after invivo and invitro smoke exposure - Vidya Srokhna 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
- eP311 - Protective effect of interferon type I on barrier function of human airway epithelium during rhinovirus infections in vitro - Helena Boland, Germany
- 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.
- eP313 - Maladapted epithelial response in the post-influenza lung as a potential driver for enhanced susceptibility to bacterial superinfection - Dunja Bruder, Germany
- 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
- eP319 - AIM2 inflammasome could be at the crosstalk between COPD and lung cancer - Chiara Colarusso, Italy
- 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

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- eP323 - Effect of Hyperbaric Oxygen Therapy among COVID-19 patients: A Meta-Analysis - 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
- 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
- eP330 - A Bioinspired Mini-Lung Model as A Pharmacokinetic Platform - Ali Doryab, Germany
- eP331 - Chronic unpredictable stress exacerbates allergic airway inflammation in mice. - Guilherme 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 Frøssing, Denmark
- eP336 - Using lung organoids to recapitulate HRas/NRas-double knockout alveolar maturation defects in mice - Rocío 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-κB 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

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- eP346 - Exploring the anti-inflammatory effect of commensal lung microbiota members in a 3-D lung epithelial cell model - Ellen Goeteyn, Belgium
- eP347 - Clinically relevant levels of hyperoxia lead to cell cycle arrest and long-term changes in DNA repair in the developing lung - Erika Gonzalez, Germany
- 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
- 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 - Lianyong 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
- eP355 - The effect of interferon-alpha-2b therapy on humoral immunity after COVID-19 infection - Albina Hasanova, Russian Fed.
- 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 - Blockade of K-ras signalling prevents fibrosis formation in the lung by attenuating the coagulatory phenotype of macrophages. - Philipp Hohensinner, Austria
- eP362 - Community-based asthma assessment in young children: Adaptations for a multicentre longitudinal study in South Asia - Mohammad Shahidul Islam, Bangladesh
- eP363 - Interleukin-10 expressing regulatory B cells are decreased in blood of smokers and COPD patients - Merel Jacobs, Belgium
- eP364 - Ferroptosis, induced by macrophages drives COPD pathogenesis - Aicha Jeridi, Germany
- eP365 - Epigenetic modulation of TLR-driven inflammatory responses in airway epithelial cells - Akhilesh Jha, United Kingdom
- eP366 - Exosomes from EGFR-mutated adenocarcinoma induce a partial/hybrid EMT - Amina JOUIDA, Ireland
- eP367 - The bacteriology of pleural infection using next generation sequencing: The Oxford Pleural Infection Metagenomics Studies (TORPIDS) - Nikolaos I. Kanellakis, United Kingdom
- eP368 - Multi-omics analysis reveals the NAD⁺ salvage pathway as defense mechanism against Streptococcus pneumoniae infection - Björn Klabunde, Germany

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- eP369 - DNA-viruses modulates changes in B cells phenotype and auto-Abs in asthma. - Anna Konishcheva, Russian Fed.
- eP370 - Eosinophil-associated gene signature expression in U-BIOPRED severe asthma - Janice Koranteng, United Kingdom
- eP371 - Background of the use of lyophilized dialysate leukocytes (DLL) in ASIT in patients with seasonal allergic rhinitis - Ieliena Koretskaia, Ukraine
- eP372 - IL11 negatively impacts adult lung alveolar organoid formation - Rosa K. Kortekaas, Netherlands
- eP373 - Assessment of mucosal and systemic phagocytosis in Health Care Professionals (HCPs) in the post COVID-19 period - Nadezda Kryukova, Russian Fed.
- eP374 - Radiation modulates bronchial epithelial progenitor activity as assessed in organoid formation assays - Merian Kuipers, Netherlands
- eP375 - Inhibition of histone deacetylase activity reduces pulmonary vascular remodeling and inflammation in experimental pulmonary hypertension - Konda Babu Kurakula, Netherlands
- eP376 - Epithelial and neutrophil responses to microbes in cystic fibrosis airways - Daniel Laucirica, Australia
- eP377 - Characteristics of DNA repair capacity of peripheral blood lymphocytes from asthmatic patients with different phenotypes and severity - Andrey Evgenievich Lintsov, Russian Fed.
- eP378 - Cytogenetic Alterations In Cells from Allergic and Non-Allergic Asthmatic Patients - Andrey Evgenievich Lintsov, Russian Fed.
- eP379 - Phenotype and function of innate lymphoid cells in a murine model of impaired muco-ciliary clearance challenged with allergen - khatuna Lobjanidze, Germany
- eP380 - Unravelling the role of miR-223 in the regulation of pollutant-aggravated allergic airway inflammation - Tania Maes, Belgium
- eP381 - Respiratory and systemic effect of diet and exercise in obese mice - Fopke Marain, Belgium
- eP382 - The RNA binding proteins ZFP36L1 and ZFP36L2 exert genome-wide effects on airways epithelium and glucocorticoid responses - Rocio Teresa Martinez-Nunez, United Kingdom
- eP383 - Production and delivery of a recombinant modified superoxide dismutase protein to a rodent ARDS model by vibrating mesh nebulisation - Sean McCarthy, Ireland
- eP384 - Validation of CXCL10 as a biomarker of respiratory tract infections detectable by lateral flow immunoassay - Dayna Mikkelsen, Canada
- eP385 - High-sensitivity TSLP assay demonstrates a role of TSLP in eosinophilic and non-eosinophilic asthma. - Louise Munkholm Andreasson, Denmark
- eP386 - Meta-analysis on novel biomarker use in lung cancer screening - Sahraoui Nassima,
- eP387 - Favipiravir induced rhabdomyolysis in patient with severe COVID-19 pneumonia - Nurgul Naurzvai, Turkey
- eP388 - 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
- eP389 - Persistent COVID-19 symptoms and quality of life among the Dutch pediatric population - Lieke Noij, Netherlands
- eP390 - Altered eicosanoid profile in association with nasal polyp severity in patients with chronic rhinosinusitis - Axel Nordström, Sweden
- eP391 - Airway hyperreactivity and type of acetylation as the predictors of eosinophilic asthma in school-age children - Yevheniya Ortemenka, Ukraine

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- eP392 - Influence of the long-term usage of inhaled corticosteroids on development of obesity and growth retardation in children with bronchial asthma - Yevehniya Ortemenka, Ukraine
- eP393 - A human ex vivo model to study the innate immune response to NTHi in the lung - Lee Page, United Kingdom
- eP394 - Alteration of lung defense mechanisms after exposure to urban coarse PM leads to infection by *Streptococcus pneumoniae* - Muriel Pichavant,
- eP395 - Allergic risk factors for severe asthma among preschool children: a descriptive-analytical study from rural Sri Lanka - Shashanka Indeevara Rajapakse Rajapakse Mudiyansele, Sri Lanka
- eP396 - Comparing epithelial alarmin responses to different aeroallergens in bronchial epithelial cells from allergic asthma patients - Sangeetha Ramu, Sweden
- eP397 - Development of novel alveolar and bronchial microphysiological systems for use in disease research and drug development. - Emily Richardson, United Kingdom
- 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 pIgR 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
- eP401 - Pharmacologic masking of the glycocalyx reduces binding of SARS-CoV-2 spike protein - Manuel Salzmann, Austria
- eP402 - Farm dust exposure decreases expression of IL-33 in primary bronchial epithelial cells in part by inhibiting STAT1 phosphorylation - Jasmijn A. Schrupf, 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,
- 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
- eP411 - Epidermal growth factor receptor protects from loss of lung function during early life allergic airway disease - Helen Stölting, United Kingdom
- eP412 - Altered hyaluronan metabolism in response to IL1 β 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

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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 - IL1 β 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

eP425 - Fibroblasts drive the differentiation of murine pneumocytes in air-liquid interface cultures - yiwon 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

Access LSC resources on the virtual platform from Monday 28 February

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