

Environmental Perspectives on Lung Health: from prevention to therapy

Helmholtz-Munich & Northwestern University

7-8th of Oct 2024

| Day 1 (Oct 7th) | |
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| 8:00 – 8:50 | Registration |
| 8:50 – 9:00 | Introductory note Önder Yildirim, Helmholtz-Munich, Germany Scott Budinger, Northwestern University, USA |
| 09:00 – 09:15 | Lung Research in Bavaria: |
| Keynote Lecture: introduced by Jürgen Behr | |
| 9:15 – 10:00 | Anette Peters Helmholtz-Munich, Germany <i>Hallmarks of Environmental Insults and the Link to Lung Disease</i> |
| Coffee Break | |
| Session 1: COPD Chair: Aicha Jeridi | |
| 10:30 – 11:00 | Klaus Rabe LungenClinic Grosshansdorf, Germany <i>Title: TBD</i> |
| 11:00 – 11:30 | Diana Stolz |

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| | <p>University of Freiburg, Germany</p> <p><i>Bridging Bench to Bedside: Clinical and Translational understanding of Inhaled Corticosteroid Response in COPD</i></p> |
| 11:30 – 11:45 | <p>Malte Lücken Helmholtz-Munich, Germany</p> <p><i>Updating the human lung cell atlas</i></p> |
| 11:45 – 12:00 | <p>Yuexin Chen Helmholtz-Munich, Germany</p> <p><i>Spatially-resolved niche proteomics of COPD disease progression</i></p> |
| 12:00 – 12:15 | Short talk - TBD |
| Lunch | |
| Session 2: Lung Transplantation Chair: Jürgen Behr | |
| 13:30 - 14:00 | <p>Bart Vanaudenaerde KU Leuven, Belgium</p> <p><i>The fundamentals of chronic rejection after lung transplantation</i></p> |
| 14:00 - 14:30 | <p>Daniel Kreisel Washington University in St. Louis, USA</p> <p><i>Immunoregulation after lung transplantation</i></p> |
| 14:30 - 15:00 | <p>Ankit Bharat Northwestern University, Chicago, USA</p> <p><i>Monocyte Driven Immune Mechanisms Of Lung Ischemia Reperfusion Injury</i></p> |
| 15:00 - 15:30 | <p>Nikolaus Kneidinger Ludwig-Maximilians University (LMU) Hospital, Germany</p> <p><i>From baseline to chronic lung allograft dysfunction - new insights and promising tools</i></p> |

| Coffee Break | |
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| 16:00 – 16:30 | Jonas Schupp Hannover Medical School, Germany <i>Title: TBD</i> |
| 16:30 – 16:45 | Elif Akova Ölken Helmholtz-Munich, Germany <i>Molecular mechanisms underlying the role of ferroptosis in lung transplant rejection</i> |
| 16:45 – 17:00 | Miri Venkata Subramani Northwestern University, Chicago, USA <i>Title: TBD</i> |
| 17:00 – 17:15 | Selected from abstracts |
| 17:15 – 17:30 | Selected from abstracts |
| 17:30 – 18:00 | Poster Teaser (2 min each) |
| 18:00 – 19:00 | Poster session |
| 19:00 - open | Dinner |
| Day 2 (8th of Oct) | |
| Keynote Lecture | |
| 9:00 – 09:45 | Soni Savai Pullamsetti Max Plank Institute for Heart and Lung Research, Bad Nauheim Justus-Liebig University, Giessen, Germany <i>Age-related epi(genetic) changes - driver or bystander in lung diseases?</i> |

Coffee Break

Session 3: ARDS
Chair: TBD

10:15 – 10:45

Susanne Herold
Justus-Liebig University, Giessen, Germany
Targeting alveolar macrophages for lung repair

10:45 – 11:00

Alexander Misharin
Northwestern University, Chicago, USA
Pathogen-specific host response predicts outcomes in severe pneumonia

11:00 – 11:15

Benjamin Singer
Northwestern University, Chicago, USA
Promoting lung recovery: epigenetic and metabolic control of Treg cell function

11:15 – 11:30

Luisa Morales-Nebreda
Northwestern University, Chicago, USA
T cell responses during severe SARS-CoV-2 pneumonia

11:30 – 11:45

Ewa Szczurek
Helmholtz-Munich, Germany
Pathogen-specific host response predicts outcomes in severe pneumonia

11:45 - 12:00

Deepesh Dhakad
Helmholtz-Munich, Germany
Post Sars-Cov-2 infection mediated susceptibility to COPD

Lunch

| Session 4: Organotypic models for lung regeneration and aging Chair: Maja Funk | |
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| 13:00– 13:30 | Gerald Burgstaller Helmholtz-Munich, Germany <i>Translational Research in Advanced Human Tissue Models for Antifibrotic Drug Discovery</i> |
| 13:30 - 13:45 | Janna Nawroth Helmholtz-Munich, Germany <i>Multiscale mechanics of mucociliary clearance</i> |
| 13:45 - 14:00 | Markus Diefenbacher Helmholtz-Munich Germany <i>Development of SEMM (Somatic Engineered Murine Models) for Lung Disease Research</i> |
| 14:00 – 14:15 | Maria Camila Melo Helmholtz-Munich, Germany <i>Novel SASP factor mediates fibroblast reprogramming in aging-associated pulmonary fibrosis</i> |
| Coffee Break | |
| Session 5: Lung Fibrosis Chair: Karen Ridge | |
| 14:45 – 15:15 | Victor Thannickal Tulane University, USA <i>Re-activating Endogenous Immunosurveillance of Senescent Cells in IPF</i> |
| 15:15 – 16:45 | Gisli Jenkins Imperial College London, UK <i>A Scar is Born: nature versus nurture?</i> |
| 16:15 – 16:45 | SeungHye Han Northwestern University, Chicago, USA <i>Mitochondrial Integrated Stress Response as a Target for Lung Health</i> |

16:45 – 17:00

Closing remarks

Departure