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LUNG HEALTH
AND IMMUNITY**
**HELMHOLTZ
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SQLIFTS
Simpson Querrey
Lung Institute
for Translational Science
**M Northwestern
Medicine**

Munich - Chicago Conference 2024

October 7th & 8th 2024, Schloss Hohenkammer (Germany)

Environmental Perspectives on Lung Health: from prevention to therapy

7-8th of Oct 2024

Schloss Hohenkammer, Munich, Germany

The Institute for Lung Health and Immunity (LHI), Helmholtz-Munich and the inaugural Simpson Querrey Lung Institute for Translational Sciences (SQLIFTS) at Northwestern University joint conference will be held on October 7th & 8th 2024 at the Schloss Hohenkammer, Germany

The meeting will cover the latest basic and translational research developments and clinical advances in environmentally driven lung diseases and aging with a focus on preventive and regenerative medicine.

ORGANIZERS:

⇒ Önder Yildirim, Roxana M. Wasnick, Jürgen Behr - Munich, Germany

⇒ G.R. Scott Budinger, Karen M. Ridge – Chicago, USA



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Day 1 (Oct 7th)	
8:00 – 9:00	Registration
09:00 – 09:15	Introductory note Önder Yildirim, Helmholtz-Munich, Germany Scott Budinger, Northwestern University, USA
Keynote Lecture: introduced by Jürgen Behr	
9:15 – 10:00	Annette Peters Helmholtz-Munich, Germany <i>Hallmarks of Environmental Insults and the Link to Lung Disease</i>
Coffee Break	
Session 1: COPD Chairs: Aicha Jeridi, Alexander Misharin	
10:30 – 11:00	Klaus Rabe LungenClinic Grosshansdorf, Germany <i>Novel Targets for the Treatment of COPD</i>
11:00 – 11:30	Daiana Stolz University of Freiburg, Germany <i>Bridging Bench to Bedside: Clinical and Translational understanding of Inhaled Corticosteroid Response in COPD</i>
11:30 – 11:45	Malte Lücken Helmholtz-Munich, Germany <i>Updating the human lung cell atlas</i>

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	<p>Selected from abstracts talk:</p> <p>Aicha Jeridi Helmholtz-Munich, Germany</p> <p><i>Novel role of the chromatin remodeling protein HMG5 in driving COPD susceptibility</i></p>
Lunch	
<p>Session 2: Lung Transplantation Chairs: Carlo Mümmeler, SeungHye Han</p>	
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 Med Uni Graz, Austria</p> <p><i>From baseline to chronic lung allograft dysfunction - new insights and promising tools</i></p>

Coffee Break

16:00 – 16:30	Jonas Schupp Hannover Medical School, Germany <i>Aberrant and Ectopic Cell Populations of the Fibrotic Pushing Border in Restrictive Allograft Syndrome after Lung Transplantation</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	Mrinalini Venkata Subramani Northwestern University, Chicago, USA <i>Advancing Lung Transplant Outcomes Through Machine Learning Models</i>
17:00 – 17:15	Selected from abstracts talk: Michael Gerckens Helmholtz-Munich, Germany, Ludwig Maximilian University Clinic (KUM) <i>Machine-learning based BAL cytology of lung transplant patients</i>
17:15 – 17:45	Poster Teaser (2 min each)
17:45 – 19:00	Poster session
19:00 - open	Dinner

Day 2 (8th of Oct)

**Keynote Lecture
Introduced by Erika von Mutius**

9:00 – 09:45

Soni Savai Pullamsetti
Max Plank Institute for Heart and Lung Research, Bad
Nauheim
Justus-Liebig University, Giessen, Germany

Age-related epi(genetic) changes - driver or bystander in lung diseases?

Coffee Break

**Session 3: ARDS
Chairs: *Mrinalini Venkata Subramani, Roxana Wasnick***

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

Macrophage-epithelial crosstalk in the context of aging, lung injury, and repair

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

12:00 – 12:15	<p>Selected from abstracts talk:</p> <p>Vladimir Shitov Helmholtz-Munich, Germany</p> <p><i>Patient representation methods for disease trajectory delineation from single-cell data</i></p>
Lunch	
Session 4: Organotypic models for lung regeneration and aging Chairs: Maja Funk, Mareike Lehmann	
13:15– 13:45	<p>Gerald Burgstaller Helmholtz-Munich, Germany</p> <p><i>Translational Research in Advanced Human Tissue Models for Antifibrotic Drug Discovery</i></p>
13:45 - 14:00	<p>Janna Nawroth Helmholtz-Munich, Germany</p> <p><i>Multiscale mechanics of mucociliary clearance</i></p>
14:00 – 14:15	<p>Markus Diefenbacher Helmholtz-Munich Germany</p> <p><i>Development of SEMM (Somatic Engineered Murine Models) for Lung Disease Research</i></p>
14:15 – 14:30	<p>Maria Camila Melo Narvaez Helmholtz-Munich, Germany</p> <p><i>Novel SASP factor mediates fibroblast reprogramming in aging-associated pulmonary fibrosis</i></p>
14:30 – 14:45	<p>Selected from abstracts talk:</p> <p><i>TBD</i></p>
Coffee Break	

Session 5: Lung Fibrosis
Chairs: Karen Ridge, Isis Fernandez

15:15 – 15:45	Victor Thannickal Tulane University, USA <i>Re-activating Endogenous Immunosurveillance of Senescent Cells in IPF</i>
15:45 – 16:15	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	Selected from abstracts talk: Dmytro Sirokha Helmholtz-Munich <i>Multimic analyses reveal transitional changes in monocyte phenotype from early to end-stage pulmonary fibrosis</i>
17:00 – 17:15	Closing remarks
Departure	