**Lung Science Conference**

*Development of chronic lung diseases: from life-spanning mechanisms to preventive therapy*

14-17 March 2024
Estoril, Portugal

The conference is granted with **16 CME credits** by the European Board for Accreditation on Pneumology (EBAP)

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**Thursday 14 March 2024**

**Opening session**
Chair: TBC

18:00-18:15  **Welcome and Introduction**  
Silke Meiners, ERS Conferences and Seminars Director

18:15-19:00  **Opening Lecture**  
*What do we know about the development of chronic lung diseases across the life span?*  
Alvar Agusti (Spain)

19:00-19:15  **Discussion**

19:30-21:00  **Poster session 1 and networking**

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**Friday 15 March 2024**

**Keynote lecture**
Chair: Gerard H.Koppelman

08:30-08:50  **Keynote lecture**  
*Genetic determinants of chronic lung diseases*  
Michael Cho (United States)

08:50-09:05  **Discussion**

**Session 1: Life-spanning lung environmental interactions in chronic lung diseases**
Chair: Gerard H.Koppelman

09:05-09:25  **How air pollution and climate change affect allergic rhinitis and asthma?**  
Barbara Hoffmann (Germany)

09:25-09:40  **Discussion**

09:40-09:55  **OP01**

09:55-10:15  **COPD, biomarkers and lung function trajectories**  
Rosa Faner (Spain)

10:15-10:30  **Discussion**

10:30-10:45  **OP02**

10:45-11:00  **Coffee break**

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All timings are in Western European Time (WET)
Session 2: Aging pathways involved in chronic lung diseases (part 1)
Chair: Mareike Lehmann

11:00-11:20  Aging and metabolic pathways in lung fibrosis
Ana Mora (United States)
11:20-11:35  Discussion

11:35-11:50  OP03

11:50-12:10  The many faces of senescence
Toren Finkel (United States)
12:10-12:25  Discussion

12:30-14:30  Lunch for all delegates and mentorship lunch discussion for bursary recipients and their mentors

Session 2: Aging pathways involved in chronic lung diseases (part 2)
Chair: Mauricio Rojas

14:30-14:50  DNA-methylation: Marker of lung disease, environment, and age
Gerard H. Koppelman (Netherlands)
14:50-15:05  Discussion

15:05-15:20  OP04

15:20-15:40  Coffee break

Session 3: Developmental pathways and the microbiome in chronic lung diseases
Chair: TBC

15:40-16:00  Developmental pathways in chronic lung diseases
Rory Morty (Germany)
16:00-16:15  Discussion

16:15-16:30  OP05

16:30-16:50  The microbiota in respiratory tract infections: from association to intervention
TBC
16:50-17:05  Discussion

17:15-18:45  Poster Session 2

Saturday 16 March 2024

Session 4: How can we achieve early detection of chronic lung disease? (part 1)
Chair: Rosa Faner

08:45-09:05  Epidemiological prediction of the incidence of chronic lung diseases
Shyamali Dharmage (Australia)
09:05-09:20  Discussion

09:20-09:35  OP06

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09:35-09:55 Early image-based detection of chronic lung diseases
Stijn Verleden (Belgium)
09:55-10:10 Discussion
10:10-10:25 OP07
10:25-10:55 Group Picture and Coffee Break

**Session 4: How can we achieve early detection of chronic lung disease? (part 2)**
Chair: David Drummond

10:55-11:15 Digital twins to personalize medicine
Liesbet Geris (Belgium)
11:15-11:30 Discussion
11:30-11:45 OP08
11:45-13:15 Lunch

**Young Investigator Session – The William MacNee Award**
Chair: Ana Mora

13:15-13:30 YI01
13:30-13:45 YI02
13:45-14:00 YI03
14:00-14:15 YI04
14:15-14:30 YI05
14:45-16:15 Poster Session 3

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

**Early-Career delegates session: The power of collaboration**
Chair: TBC

17:00-17:05 Introduction
Sara Cuevas Ocana (United Kingdom)
17:05-17:15 Academic collaboration with worldwide leaders
Melanie Koenigshoff (United States)
17:15-17:20 Discussion
17:20-17:30 Collaboration with industrial partners
Maria Belvisi (Sweden)
17:30-17:35 Discussion

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17:35-17:45  Early career collaboration with respiratory peers  
Mareike Lehmann (Germany)
17:45-17:50  Discussion

17:50-18:00  When/where/how to get started in the collaboration cycle?  
Harry Karmouty-Quintana (United States)
18:00-18:05  Discussion

18:05-18:15  Remarks: where successful collaborations are a must and how ERS can help you accessing these opportunities  
Sara Cuevas Ocaña (United Kingdom)
18:15-19:30  Round table

Evening Pre-dinner talk  
Chair: Rory Morty
19:30-19:50  Birth cohort for low- and middle-income settings  
Heather Zar (South Africa)
19:50-20:05  Discussion

20:05  Award Ceremony

From 20:30 Dinner for all delegates

Sunday 17 March 2024

Session 5: Preventive and regenerative strategies for chronic lung diseases?  
Chairs: Monika Gappa

08:45-09:05  Lung growth trajectories: catch up and growth failure  
TBC
09:05-09:20  Discussion

09:20-09:40  Novel regenerative approaches to lung injury  
Thomas Conlon (Germany)
09:40-09:55  Discussion

09:55-10:15  Coffee break

10:15-11:45  Panel Discussion  
Trajectories to early diagnosis and future therapies of chronic lung diseases  
Moderator: Alvar Agusti (Spain)  
Panelists: Monika Gappa and etc. – TBD

11:45-12:00  Conclusion by Silke Meiners, ERS Conferences and Seminars Director

12:00  Lunch and departure

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