



Lung Science Conference

Mechanisms of Acute Exacerbation of Respiratory Disease

07-10 March 2019 - Estoril, Portugal / programme as of 17.10.2018

Thursday 07 March 2019

Opening Session

- 18:00-18:15** **Welcome and Introduction**
Rachel Chambers, ERS Conferences and Seminars Director
- 18:15-18:45** **Opening Lecture**
“Viruses as a critical trigger in the development of acute exacerbations of asthma” – Sebastian Johnston (London, UK)
- 18:45-19:00 Discussion
- 19:00-19:30** **Welcome cocktail**

Friday 08 March 2019

Session 1: Triggers of acute exacerbation

- 08:45-09:05** **Pollutant induced acute exacerbations of asthma and COPD**
Guy Brusselle (Ghent, Belgium)
- 09:05-09:20 Discussion
- 09:20-09:35** Abstract Oral Presentation 1
- 09:35-09:55** **Immune mechanisms and inflammation in pulmonary fibrosis and acute exacerbation**
Antje Prasse (Hannover, Germany)
- 09:55-10:10 Discussion
- 10:10-10:25** Abstract Oral Presentation 2
- 10:25-10:50 *Coffee break*
- 10:50-11:05** Abstract Oral Presentation 3
- 11:05-11:25** **The gut-lung axis in acute exacerbation of airways disease**
Benjamin Marsland (Melbourne, Australia)
- 11:25-11:40 Discussion
- 11:40-11:55** Abstract Oral Presentation 4
- 11:55-14:00 Lunch for all delegates and mentorship lunch for bursary recipients and their mentors

Session 2: Microbiome and acute exacerbation

- 14:00-14:20** **Development and homeostasis of a healthy microbiome in the human respiratory tract**
Debby Bogaert (The Netherlands / UK)
- 14:20-14:35 Discussion
- 14:35-14:50 Abstract Oral Presentation 5
- 14:50-15:10** **The contribution of the microbiome and fungome to acute exacerbation in fibrotic lung disease**
Philip Molyneaux (London, UK)
- 15:10-15:25 Discussion
- 15:25-15:45** **Microbiome in cystic fibrosis exacerbations**
Marcus Mall (Berlin, Germany)
- 15:45- 16:00 Discussion
- 16:00-16:15 *Coffee break*
- 16:15-18:15** **Poster Session 1 – Up to 40 posters based on abstract selected**

Dinner for all delegates

Saturday 09 March 2019

Session 3: Pathophysiology of acute exacerbation (part 1)

- 08:45-09:05** **Host DNA released by NETosis promotes rhinovirus-induced type-2 allergic asthma exacerbation**
Thomas Marichal (Liège, Belgium)
- 09:05-09:20 Discussion
- 09:20-09:35 Abstract Oral Presentation 6
- 09:35-09:55** **The microbiome in bronchiectasis**
James Chalmers (Dundee, UK)
- 09:55- 10:10 Discussion
- 10:10-10:25 Abstract Oral Presentation 7
- 10:25-10:40 Abstract Oral Presentation 8
- 10:40-11:00 *Group Picture and Coffee Break*
- 11:00-12:15** **Young Investigator Session – (the 5 best abstracts from young authors)**

12:15-14:45 **Lunch and Poster Session 2** (up to 40 posters based on abstract)

14:50-16:50 Early-Career delegates session: How to advance your career

Chair: Sabine Bartel and Pieter Hiemstra

- 14:50-14:55 Introduction (Sabine Bartel)
- 14:55-15:10 Tenure Tracks and Junior Research Groups- The Lund University Model (Gunilla Westergren-Thorsen - Sweden)
- 15:10-15:25 Experiences from a junior research group leader (Darcy Wagner - Sweden)
- 15:25-15:40 Discussion with both speakers
- 15:40-15:55 Successful entry paths into industry (Mohammed Sorif Uddin - Germany)
- 15:55-16:10 Tips from a successful industry applicant (Marc Kästle - Germany)
- 16:10- 16:25 Discussion with both speakers
- 16:25-16:50 Panel discussion and networking event

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

“The human superorganism: How microbes shape who we are”
Alice Prince (New York, USA)

From 20:00 Gala Dinner and Awards Ceremony

Sunday 10 March 2019

Session 4: Pathophysiology of acute exacerbation (part 2)

- 08:45-09:05** **Cellular mechanisms underlying steroid refractory asthma**
Philip Hansbro (Newcastle, Australia)
- 09:05-09:20 Discussion
- 09:20-09:40** **Effect of microbial communities on antimicrobial drug efficacy and host inflammation in Cystic Fibrosis**
Aurélie Crabbé (Ghent, Belgium)
- 09:40-09:55 Discussion
- 09:55-10:15 **Mechanisms of AE in COPD**
Mona Bafadhel (London, United Kingdom)
- 10:15-10:30 Discussion
- 10:30-10:45 *Coffee break*

Session 5: Treatment/management/prevention of acute exacerbation

- 10:45-11:05** **Management of COPD exacerbations**
Nicolas Roche (Paris, France)
- 11:05-11:20 Discussion
- 11:20-11:40** **Harnessing the microbiome to combat inflammation-a hot topic or a credible future?**
Liam O'Mahony (Cork, Ireland)
- 11:40-11:55 Discussion
- 11:55-12:10 Conclusion by Rachel Chambers, ERS Conferences and Seminars Director