



ERS

19th ERS LUNG SCIENCE CONFERENCE

Lung Science Conference ***Repair and regeneration in chronic lung disease and lung cancer***

11-14 March 2021 – Estoril, Portugal

Scientific programme as of 01.05.2020 - Speakers to be confirmed

Thursday 11 March 2021

Opening Session

- 18:00-18:15** **Welcome and Introduction**
Reinoud Gosens, ERS Conferences and Seminars Director
- 18:15-19:00** **Opening Lecture**
“Adult stem cell-based organoids for disease modelling”
- 19:00-19:15 Discussion
- 19:15-20:00** **Welcome “cheese and wine” cocktail**

Friday 12 March 2021

- Session 1:** **Cell plasticity in lung development and disease**
- 08:30-08:50** **iPSC derived lung stem cells as tools to understand lung regeneration and disease**
- 08:50-09:05 Discussion
- 09:05-09:20** **Abstract Oral Presentation 1**
- 09:20-09:40** **Krt8+ translational stem cell intermediates in alveolar regeneration**
- 09:40-09:55 Discussion
- 09:55-10:15** **Macrophage plasticity in COPD**
- 10:15-10:30 Discussion
- 10:30-10:50 *Coffee break*
- Session 2:** **Stem cell niche interactions (part 1)**
- 10:50-11:05** **Abstract Oral Presentation 2**
- 11:05-11:20** **Abstract Oral Presentation 3**
- 11:20-11:40** **Mechanical tension on alveolar stem cells causes progressive pulmonary fibrosis**
- 11:40-11:55 Discussion
- 12:00-14:00 Lunch for all delegates and mentorship lunch discussion for bursary recipients and their mentors



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Session 2: Stem cell niche interactions (part 2)

14:00-14:15 Abstract Oral Presentation 4

14:15-14:35 The role of the microvascular niche in lung regeneration
14:35-14:50 Discussion

14:50-15:05 Abstract Oral Presentation 5

15:05-15:20 Abstract Oral Presentation 6

From 15:20 coffee will be served in the poster area

15:30-17:30 Poster Session 1

From 19:00 Dinner for all delegates

Saturday 13 March 2021

Session 3: Epithelial stem cell in disease

08:30-08:50 Tobacco smoking and somatic mutations in human bronchial epithelium
08:50-09:05 Discussion

09:05-09:20 Abstract Oral Presentation 7

09:20-09:40 Interplay between viral infections and epithelial progenitors in the lung
09:40-09:55 Discussion

09:55-10:10 Abstract Oral Presentation 8

10:10-10:30 Immune evasion proceeds tumour invasion in early lung squamous carcinogenesis
10:30-10:45 Discussion

10:45-11:10 Group Picture and Coffee Break

11:10-12:25 Young Investigator Session – The William MacNee Award

12:30-13:30 Lunch

13:30-15:30 Poster Session 2

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



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17:00-19:30	Early-Career delegates session – Research output for career advancement: When, where and how?
17:00-17:10	Introduction
17:10-17:30	The use of Pre-prints to publish your science
17:30-17:50	How to measure research output – the DORA declaration
17:50-18:10	How to make me like your paper (part 1)
18:10-18:30	How to make me like your paper (part 2)
18:30-19:30	Panel discussion and networking event
19:30-20:00	Evening Pre-dinner talk “CLARITY-optimized light sheet microscopy (COLM): a tour de force of human and mouse anatomy”

From 20:00 Gala Dinner and Award Ceremony

Sunday 14 March 2021

Session 4:	Cell-matrix interactions
08:45-09:05	Cell-matrix interactions in chronic lung disease
09:05-09:20	Discussion
09:20-09:40	Integrin signaling and mechanotransduction in the regulation of lung cancer and stem cell function
09:40-09:55	Discussion
09:55-10:15	<i>Coffee break</i>
Session 5:	Therapies: organoids, drugs, cell therapy
10:15-10:35	Organoid therapy for chronic lung disease
10:35-10:50	Discussion
10:50-11:10	Mesenchymal stem cell therapy for severe emphysema
11:11-11:25	Discussion
11:25-11:45	Cellular reprogramming of cancer cells to antigen-presenting cells
11:45-12:00	Discussion
12:00-12:30	Panel discussion
12:30-12:45	Conclusion by Reinoud Gosens, ERS Conferences and Seminars Director
12:45	Lunch and departure