



ERS

19th ERS LUNG SCIENCE CONFERENCE

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

11-12 March 2021 – Virtual

Virtual programme as of 11.01.2021

The conference is granted with 8 CME credits by the European Board for Accreditation on Pneumology (EBAP)

Day 1 – Thursday 11 March 2021

Opening Session

Chair: Reinoud Gosens

- 14:00-14:15** **Welcome and Introduction**
Reinoud Gosens, ERS Conferences and Seminars Director
- 14:15-14:25** **Opening Lecture**
“Is human pulmonary fibrosis simply lung regeneration without a blueprint?”
Naftali Kaminski (Pennsylvania, USA)
- 14:25-14:30 Discussion

Session 1: Cell plasticity in lung development and disease

Chair: Reinoud Gosens

- 14:30-14:40** **iPSC derived lung stem cells as tools to understand lung regeneration and disease**
Killian Hurley (Dublin, Ireland)
- 14:40-14:45 Discussion
- 14:45-14:55** **The journey of stem cell differentiation during alveolar regeneration**
Joo-Hyeon Lee (Cambridge, United Kingdom)
- 14:55-15:00 Discussion
- 15:00-15:10** **Macrophage plasticity in COPD**
Joachim Schultze (Bonn, Germany)
- 15:10-15:15 Discussion

Session 2: Stem cell niche interactions

Chair: Darcy Wagner

- 15:15-15:25** **Epithelial-mesenchymal interactions involving FGFs**
Saverio Bellusci (Giessen, Germany)
- 15:25-15:30 Discussion
- 15:30-15:40** **The role of the microvascular niche in lung regeneration**
Edward Morrissey (Pennsylvania, USA)
- 15:40-15:45 Discussion
- 15:45-16:00 *Break*

16:00-17:00 Poster session 1 (4 break-out with 10 posters)

Group A - Chairs: Reinoud Gosens and TBC

Group B - Chairs: Darcy Wagner and TBC

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Group C - Chairs: Herbert Schiller and TBC

Group D - Chairs: Sam Janes and TBC

17:00-17:15 *Break with intersession slides*

17:15-18:15 Poster session 2 (4 break-out with 10 posters)

Group E - Chairs: Reinoud Gosens and TBC

Group F - Chairs: Darcy Wagner and TBC

Group G - Chairs: Herbert Schiller and TBC

Group H - Chairs: Sam Janes and TBC

18:15-19:15 Mentorship session (Option 1)

Day 2 – Friday 12 March 2021

10:00-12:15 Early-Career delegates session – Research output for career advancement: When, where and how?

Chairs: Niki Ubags and Darcy Wagner

10:00-10:15 Introduction
Niki Ubags (Epalinges, Switzerland)

10:15-10:25 The use of Pre-prints to publish your science
Darcy Wagner (Lund, Sweden)

10:25-10:30 Discussion

10:30-10:40 How to write a peer review
Pieter Hiemstra (Leiden, Netherlands)

10:40-10:45 Discussion

10:45-10:55 How to make me like your paper (part 1)
Suzanne Herold (Giessen, Germany)

10:55-11:00 Discussion

11:00-11:10 How to make me like your paper (part 2)
Martin Kolb (Hamilton, Canada)

11:10-11:15 Discussion

11:15-12:15 Panel discussion

12:30-13:30 Mentorship session (Option 2)
Lunch break

Session 3: Epithelial stem cell in disease
Chair: Herbert Schiller

14:00-14:10 Tobacco smoking and somatic mutations in human bronchial epithelium

Sam Janes (London, United Kingdom)

14:10-14:15 Discussion



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- 14:15-14:25** **Interplay between viral infections and epithelial progenitors in the lung**
Susanne Herold (Giessen, Germany)
- 14:25-14:30 Discussion
- 14:30-14:40** **Club cells in adenocarcinoma and alveolar repair**
Georgios Stathopoulos (Munich, Germany)
- 14:40-14:45 Discussion
- 14:45-15:45** **Young Investigator Session – The William MacNee Award**
- 15:45-16:00 *Break*
- Keynote Lecture**
Chair: Sam Janes
- 16:00-16:20** **Uncovering the cells and genes responsible for salamander limb regeneration**
Nicholas Leigh (Lund, Sweden)
- 16:20-16:25 Discussion
- Session 4:** **Cell-matrix interactions**
Chair: Sam Janes
- 16:25-16:35** **Cell-matrix interactions in chronic lung disease**
Janette Burgess (Groningen, Netherlands)
- 16:35-16:40 Discussion
- 16:40-16:50** **Regulation of cell fate and integrity by mechanical signals**
Sara Wickström (Helsinki, Finland)
- 16:50-16:55 Discussion
- Session 5:** **Therapies: organoids, drugs, cell therapy**
Chair: Reinoud Gosens
- 16:55-17:05** **Lung organoids reveal epithelial-mesenchymal mechanisms of lung disease and potential therapy**
Carla Kim (Boston, USA)
- 17:05-17:10 Discussion
- 17:10-17:20** **Mesenchymal stem cell therapy for severe emphysema**
Pieter Hiemstra (Leiden, Netherlands)
- 17:20-17:25 Discussion
- 17:25-17:35** **Cellular reprogramming of cancer cells to antigen-presenting cells**
Filipe Pereira (Lund, Sweden)
- 17:35-17:40 Discussion
- 17:40-18:10 Awards announcement and conclusion by Reinoud Gosens, ERS Conferences and Seminars Director

e-Poster platform available from Monday 8th March to Sunday 31st March 2021

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