



# ERS

# 19<sup>th</sup> 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 17.11.2020*

### ***Day 1 – Thursday 11 March 2021***

#### **Opening Session**

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|--------------------|---|
| <b>14:00-14:15</b> | <b>Welcome and Introduction</b><br>Reinoud Gosens, ERS Conferences and Seminars Director  |
| <b>14:15-14:25</b> | <b>Opening Lecture</b><br>“Is human pulmonary fibrosis simply lung regeneration without a blueprint?”<br>Naftali Kaminski (Pennsylvania, USA) |
| <b>14:25-14:30</b> | Discussion  |
| <b>Session 1:</b>  | <b>Cell plasticity in lung development and disease</b>  |
| <b>14:30-14:40</b> | <b>iPSC derived lung stem cells as tools to understand lung regeneration and disease</b><br>Killian Hurley (Dublin, Ireland)                  |
| <b>14:40-14:45</b> | Discussion  |
| <b>14:45-14:55</b> | <b>Krt8+ translational stem cell intermediates in alveolar regeneration</b><br>Joo-Hyeon Lee (Cambridge, United Kingdom)                      |
| <b>14:55-15:00</b> | Discussion  |
| <b>15:00-15:10</b> | <b>Macrophage plasticity in COPD</b><br>Joachim Schultze (Bonn, Germany)  |
| <b>15:10-15:15</b> | Discussion  |
| <b>Session 2:</b>  | <b>Stem cell niche interactions</b>   |
| <b>15:15-15:25</b> | <b>Epithelial-mesenchymal interactions involving FGFs</b><br>Saverio Bellusci (Giessen, Germany)  |
| <b>15:25-15:30</b> | Discussion  |
| <b>15:30-15:40</b> | <b>The role of the microvascular niche in lung regeneration</b><br>Edward Morrissey (Pennsylvania, USA)                                       |
| <b>15:40-15:45</b> | Discussion  |
| <b>15:45-16:00</b> | <i>Break</i>  |
| <b>16:00-17:00</b> | <b>Poster session 1 (4 break-out with 10 posters)</b>   |
| <b>17:00-17:15</b> | <i>Break with intersession slides</i>   |
| <b>17:15-18:15</b> | <b>Poster session 2 (4 break-out with 10 posters)</b>   |
| <b>18:15-19:15</b> | <b>Mentorship session (Option 1)</b>  |

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## Day 2 – Friday 12 March 2021

10:00-12:15	<b>Early-Career delegates session – Research output for career advancement: When, where and how?</b>
10:00-10:15	<b>Introduction</b> Niki Ubags (Epalinges, Switzerland)
10:15-10:25	<b>The use of Pre-prints to publish your science</b> Darcy Wagner (Lund, Sweden)
10:25-10:30	Discussion
10:30-10:40	<b>How to write a peer review</b> Pieter Hiemstra (Leiden, Netherlands)
10:40-10:45	Discussion
10:45-10:55	<b>How to make me like your paper (part 1)</b> Suzanne Herold (Giessen, Germany)
10:55-11:00	Discussion
11:00-11:10	<b>How to make me like your paper (part 2)</b> Martin Kolb (Hamilton, Canada)
11:10-11:15	Discussion
11:15-12:15	<b>Panel discussion</b>
12:30-13:30	<b>Mentorship session (Option 2)</b>
12:30-13:30	<i>Lunch break</i>
<b>Session 3:</b>	<b>Epithelial stem cell in disease</b>
14:00-14:10	<b>Tobacco smoking and somatic mutations in human bronchial epithelium</b> Sam Janes (London, United Kingdom)
14:10-14:15	Discussion
14:15-14:25	<b>Interplay between viral infections and epithelial progenitors in the lung</b> Susanne Herold (Giessen, Germany)
14:25-14:30	Discussion
14:30-14:40	<b>Club cells in adenocarcinoma and alveolar repair</b> Georgios Stathopoulos (Patras, Greece)
14:40-14:45	Discussion
14:45-15:45	<b>Young Investigator Session – The William MacNee Award</b>
15:45-16:00	<i>Break</i>

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## Keynote Lecture:

- 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**

- 16:25-16:35**      **Cell-matrix interactions in chronic lung disease**  
Janette Burgess (Groningen, Netherlands)
- 16:35-16:40      Discussion
- 16:40-16:50**      **Integrin signaling and mechanotransduction in the regulation of lung cancer and stem cell function**  
Sara Wickström (Helsinki, Finland)
- 16:50-16:55      Discussion

## Session 5:      **Therapies: organoids, drugs, cell therapy**

- 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 8<sup>th</sup> March to Sunday 14<sup>th</sup> March 2021**

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