



# ERS

# 18<sup>th</sup> ERS LUNG SCIENCE CONFERENCE

## ***Lung Science Conference Metabolic alterations in lung ageing and disease***

05-08 March 2020 – Estoril, Portugal

*Scientific programme as of 16.05.2019 – Preliminary programme, speakers to be confirmed*

### **Thursday 05 March 2020**

#### **Opening Session**

- 18:00-18:15**      **Welcome and Introduction**  
Reinoud Gosens, ERS Conferences and Seminars Director
- 18:15-18:45**      **Opening Lecture**  
“The mitochondrion revisited: an overview of its role in lung inflammation and lung ageing”
- 18:45-19:00      Discussion
- 19:00-19:30**      **Welcome “cheese and wine” cocktail**

### **Friday 06 March 2020**

- Session 1:**      **Immunometabolism and inflammaging**
- 08:45-09:05**      **Metabolic profiling of severe asthma: implications for phenotyping and treatment**
- 09:05-09:20      Discussion
- 09:20-09:35**      **Abstract Oral Presentation 1**
- 09:35-09:55**      **Metabolic reprogramming of tumor associated macrophages and its impact on lung cancer progression**
- 09:55-10:10      Discussion
- 10:10-10:25**      **Abstract Oral Presentation 2**
- 10:25-10:50      *Coffee break*
- Session 2:**      **Mitochondrial dysfunction in lung ageing and disease**
- 10:50-11:05**      **Abstract Oral Presentation 3**
- 11:05-11:25**      **Mitochondrial in airway smooth muscle as a driver of airway hyperresponsiveness in asthma**
- 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



# ERS

# 18<sup>th</sup> ERS LUNG SCIENCE CONFERENCE

<b>14:00-14:20</b>	<b>Mitochondrial iron in the susceptibility, pathogenesis and progression of COPD</b>
14:20-14:35	Discussion
<b>14:35-14:50</b>	<b>Abstract Oral Presentation 5</b>
<b>14:50-15:10</b>	<b>Senotherapies for chronic lung disease</b>
15:10-15:25	Discussion
15:25-15:40	<b>Abstract Oral Presentation 6</b>
15:40-16:00	<i>Coffee break</i>
<b>16:00-18:00</b>	<b>Poster Session 1</b>

## Saturday 07 March 2020

### Session 3: Cellular senescence

<b>08:45-09:05</b>	<b>Heme oxygenase-1 regulation of cell senescence in COPD</b>
09:05-09:20	Discussion
<b>09:20-09:40</b>	<b>Respiratory muscle senescence during chronic lung disease and ageing</b>
09:40-09:55	Discussion
<b>09:55-10:10</b>	<b>Abstract Oral Presentation 7</b>
<b>10:10-10:25</b>	<b>Abstract Oral Presentation 8</b>
<b>10:25-10:45</b>	<b>An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics</b>
10:45-11:00	Discussion

## GROUP PICTURE

<b>11:15-13:45</b>	<b>Poster Session 2 and Lunch</b>
<b>13:45-15:00</b>	<b>Young Investigator Session – The William MacNee Award</b>
<b>15:00-17:00</b>	<b>Early-Career delegates session – Strategically and successfully funding of your future</b>
<b>15:00-15:20</b>	<b>How to write a convincing research grant</b>
<b>15:20-15:40</b>	<b>Obtaining a grant to organize an ERS Research Seminar</b>
<b>15:40-16:00</b>	<b>Your first personal research grant within the ERS fellowship programme</b>



ERS

# 18<sup>th</sup> ERS LUNG SCIENCE CONFERENCE

**16:00-16:20**      **Funding possibilities from the European Union (EU)/European Research Council (ERC)**

**16:20-17:00**      **Panel discussion with all speakers and networking event**

*17:00*

*Coffee Break*

**19:25-19:55**

**Evening Pre-dinner talk**

“Metabolic reprogramming in innate immunity and inflammation”

From 20:00 Gala Dinner and Award Ceremony

## Sunday 08 March 2020

### **Session 4:**      **The ageing lung under stress**

**08:45-09:05**      **Linking proteostasis to immune activation in the ageing lung**  
09:05-09:20      Discussion

**09:20-09:40**      **Protein oxidation as a driver of disease and gateway to novel therapies for lung fibrosis**  
09:40-09:55      Discussion

*09:55-10:05*      *Coffee break*

### **Session 5:**      **Therapeutics targeting metabolic alterations in disease**

**10:05-10:25**      **Metabolic reprogramming by mesenchymal stem cells as a strategy for lung repair**  
10:25-10:40      Discussion

**10:40-11:00**      **Nutritional modulation to correct metabolic alterations in chronic lung disease**  
11:00-11:15      Discussion

**11:15-11:35**      **The promise of mTOR signaling as a therapeutic target for IPF**  
11:35-11:50      Discussion

**11:50-12:10**      Conclusion by Reinoud Gosens, ERS Conferences and Seminars Director