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18th ERS LUNG SCIENCE CONFERENCE

Lung Science Conference Metabolic alterations in lung ageing and disease

05-08 March 2020 – Estoril, Portugal

Scientific programme as of 14.09.2019

*The conference is granted **16 European CME credits** by the European Accreditation Council for Continuing Medical Education (EACCME) and **13 CME credits** by the European Board for Accreditation in Pneumology (EBAP)*

Thursday 05 March 2020

Opening Session

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| 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” – Jahar Bhattacharya (New York, USA) |
| 18:45-19:00 | Discussion |
| 19:00-19:30 | Welcome “cheese and wine” cocktail |

Friday 06 March 2020

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| Session 1: | Immunometabolism and inflammaging |
| 08:45-09:05 | Metabolic profiling of severe asthma: implications for phenotyping and treatment
Craig Wheelock (Stockholm, Sweden) |
| 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
Rajkumar Savai (Bad Nauheim, Germany) |
| 09:55-10:10 | Discussion |
| 10:10-10:25 | Abstract Oral Presentation 2 |
| 10:25-10:50 | <i>Coffee break</i> |
| 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
Thomas Trian (Bordeaux, France) |
| 11:25-11:40 | Discussion |



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

Saturday 07 March 2020

Session 3:	Cellular senescence
08:45-09:05	Heme oxygenase-1 regulation of cell senescence in COPD
	Maylis Dagouassat (Paris, France)
09:05-09:20	Discussion
09:20-09:40	Respiratory muscle senescence during chronic lung disease and ageing
	Joaquim Gea (Barcelona, Spain)
09:40-09:55	Discussion
09:55-10:10	Abstract Oral Presentation 7
10:10-10:25	Abstract Oral Presentation 8
10:25-10:45	An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics
	Herbert Schiller (Munich, Germany)
10:45-11:00	Discussion

GROUP PICTURE

11:15-13:45	Poster Session 2 and Lunch
13:45-15:00	Young Investigator Session – The William MacNee Award



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- 15:00-17:00** **Early-Career delegates session – Strategically and successfully funding of your future**
- 15:00-15:20** **How to write a convincing research grant**
Reinoud Gosens (Groningen, Netherlands)
- 15:20-15:40** **Obtaining a grant to organize an ERS Research Seminar**
Rachel Chambers (London, United Kingdom)
- 15:40-16:00** **Your first personal research grant within the ERS fellowship programme**
Louise Donnelly (London, United Kingdom)
- 16:00-16:20** **Funding possibilities from the European Union (EU)/European Research Council (ERC)**
Nadia El Mjyad (Brussels, Belgium)
- 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” – Luke O’Neill (Dublin, Ireland)

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**
Silke Meiners (Munich, Germany)
- 09:05-09:20 Discussion
- 09:20-09:40** **Protein oxidation as a driver of disease and gateway to novel therapies for lung fibrosis**
Martina Korfei (Giessen, Germany)
- 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**
Anna Krasnodembkaya (Belfast, UK)
- 10:25-10:40 Discussion



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10:40-11:00	Nutritional modulation to correct metabolic alterations in chronic lung disease Annemie Schols (Maastricht, NL) Discussion
11:00-11:15	
11:15-11:35	The promise of mTOR signaling as a therapeutic target for IPF Rachel Chambers (London, UK) Discussion
11:35-11:50	
11:50-12:10	Conclusion by Reinoud Gosens, ERS Conferences and Seminars Director