



ERS Research Seminar

Integrating systems biology approach in idiopathic pulmonary fibrosis research

15-16 December 2016

Barcelona, Spain

DAY 1 - Thursday 15 December 2016

08:00-08:15 Arrivals & registration

08:15-08:30 Introduction and aims of the seminar
María Molina and Jacobo Sellarés

Session 1 – General overview of system biology and potential applications in IPF

Chairs: Alvar Agustí and Jacobo Sellarés

08:30-09:00 General overview of system biology and network analysis
Alvar Agustí, Barcelona, Spain

09:00-09:30 Integrating systems biology in respiratory diseases
Fernando Martinez, New York, USA

09:30-10:00 Systems biology in IPF: why we need to integrate
Toby Maher, London, UK

10:00-10:30 Panel discussion and questions

10:30-11:00 Coffee Break

Session 2 – Connecting systems in IPF (I)

Chairs: Maria Molina and Katerina Antoniou

11:00-11:30 Connected systems in aging and IPF
Ana Mora, Pittsburgh, USA

11:30-12:00 Telomerase and telomere length in lung fibrosis: what does it mean?
María Molina, Barcelona, Spain

12:00-12:30 IPF: a genetic disease that involves mucociliary dysfunction of the peripheral airways
David Schwartz, Denver, USA

12:30-13:00 Panel discussion and questions

13:00-14:00 Lunch

14:00-15:00 Poster session

Session 3 - Connecting systems in IPF (II)

Chairs: Melanie Königshoff and Maria Molina

- 15:00-15:30 Altered pathways from alveolar epithelial cells
Melanie Königshoff, Munich, Germany
- 15:30-16:00 Next steps in fibroblasts research
Bruno Crestani, Paris, France
- 16:00-16:30 Panel discussion and questions

DAY 2 – Friday 16 December 2016

Session 4 – Connecting systems in IPF (III)

Chairs: Mauricio Rojas and Jacobo Sellares

- 09:00-09:30 Mesenchymal stem cells in aging and IPF
Mauricio Rojas, Pittsburgh, USA
- 09:30-10:00 Metabolic reprogramming in IPF
Rachel Chambers, London, UK
- 10:00-10:30 Panel discussion and questions
- 10:30-11:00 *Coffee Break*
- 11:00-13:30 Roundtable: Summary of presentations and next steps to take**
Chairs: Maria Molina, Jacobo Sellares and Bruno Crestani
- 13:00-14:00 *Lunch*