

ERS Research Seminar

Personalised medicine in acute respiratory distress syndrome

30 – 31 January 2020

Barcelona, Spain

Thursday, 30 January 2020

08.00 – 08.30 Registration

Session I – Heterogeneity in ARDS; the three kings

08.30 – 08.40 Introduction: Lumping when possible, splitting when necessary
Lieuwe Bos (Netherlands), Carolyn Calfee (USA), Raffaele Scala (Italy)

08.40 – 09.10 The ARDS definition throughout the years; where do we come from?
Antonio Artigas (Spain)

09.10 – 09.40 Etiology; how does the cause of ARDS guide management?
Laurent Papazian (France)

09.40 – 10.10 Coffee break

10.10 – 10.40 Physiology: how does physiology guide treatment in ARDS
Luigiano Gattinoni (Germany)

10.40 – 11.10 Biology: the current evidence for biological heterogeneity in ARDS
Carolyn Calfee (USA)

11.10 – 12.00 *Plenary discussion*

12.00 – 13.30 Lunch and poster viewing

Session II – Physiological heterogeneity

13.30 – 13.50 How to pick the right ventilatory support mode for the individual patient?
Lara Pisani (Italy)

13.50 – 14.10 Who benefits from PEEP and recruitment? From Mice to Human
Marcus Schultz (Netherlands)

14.10 – 14.30 How to guide mechanical ventilation by imaging?
Jean-Michel Constantin (France)

14.30 – 15.00 *Plenary discussion*

15.00 – 15.30 Coffee break

Session III – From basic science to effective drugs

15.30 – 15.50	<i><u>The good, the bad and the ugly of preclinical models for ARDS</u></i> John Laffey (Ireland)
15.50 – 16.10	<i><u>The neutrophil drives diversity in ARDS</u></i> Charlotte Summers (UK)
16.10 – 16.30	<i><u>The endothelium drives diversity in ARDS</u></i> Nuala Meyer (USA)
16.30 – 17.00	<i><u>How to evaluate biological variation in ARDS?</u></i> Manu Shankar-Hari (UK)
17.00 – 17.30	<i>Plenary discussion</i>
19.00	Dinner

Tuesday, 31 January 2020

Session IV Group breakdown 1

08.00 – 09.30 *Breakdown into three groups:*

- Group 1: Etiology* (Lieuwe Bos)
- Group 2: Physiology* (Raffaele Scala)
- Group 3: Biology* (Carolyn Calfee)

To aim of the breakdown session is to work out the 10 take home messages per domain for in the perspective paper

09.30 – 10.00 Coffee break

Session V Group breakdown 2

10.00 – 10.30 *Pitches from selected participants: How does their research inform us about heterogeneity in ARDS?*

10.30 – 11.00 Group discussion

11.00 – 13.00 Breakdown into three groups as in session 4

13.00 – 14.00 *Lunch and poster viewing*

Session VI Concluding pitches

14.00 – 14.10 *Pitch on clinical phenotypes* (Lieuwe Bos)

14.10 – 14.20 *Pitch on physiological phenotypes* (Raffaele Scala)

14.20 – 14.30 *Pitch on biological phenotypes* (Carolyn Calfee)

14.30 – 15.00 *Concluding discussion*