

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?  
- Speaker TBC

09.40 – 10.10 Coffee break

10.10 – 10.40 Physiology: how does physiology guide treatment in ARDS  
- Speaker TBC

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?  
- Speaker TBC

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?  
- Speaker TBC

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>The good, the bad and the ugly of preclinical models for ARDS</i> - Speaker TBC
15.50 – 16.10	<i>The neutrophil drives diversity in ARDS</i> Charlotte Summers (UK)
16.10 – 16.30	<i>The endothelium drives diversity in ARDS</i> - Speaker TBC
16.30 – 17.00	<i>How to evaluate biological variation in ARDS?</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*