

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:*

<i>Group 1: Etiology</i>	(Lieuwe Bos)
<i>Group 2: Physiology</i>	(Raffaele Scala)
<i>Group 3: Biology</i>	(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	<i>Pitches from selected participants: How does their research inform us about heterogeneity in ARDS?</i>
10.30 – 11.00	<i>Group discussion</i>
11.00 – 13.00	<i>Breakdown into three groups as in session 4</i>
13.00 – 14.00	<i>Lunch and poster viewing</i>

#### **Session VI                      Concluding pitches**

14.00 – 14.10	<i>Pitch on clinical phenotypes</i> (Lieuwe Bos)
14.10 – 14.20	<i>Pitch on physiological phenotypes</i> (Raffaele Scala)
14.20 – 14.30	<i>Pitch on biological phenotypes</i> (Carolyn Calfee)
14.30 – 15.00	<i>Concluding discussion</i>