

ERS Research Seminar

Early Origins of Lung Disease: an interdisciplinary approach

11 – 12 November 2019

Lisbon, Portugal

Monday, 11 November 2019

08.30 – 08.45

Registration

08.45 – 09.00

Introduction and welcome

Dr. Niki Ubags (Switzerland) and Dr. Jennifer Collins (Netherlands)

Session I – Pre- and perinatal lung development

Chairs: Dr. Charlotte Dean (UK) and Dr. Rory Morty (Germany)

09.00 – 09.45 *Fetal and neonatal lung development: the impact of multiple pre- and postnatal exposures*

Prof. Suhas Kallapur (USA)

09.45 – 10.00 *OP1: Prenatal disturbances in endogenous epithelial stem/progenitor pools – first hits to adverse pulmonary outcomes* - Ms. Hélène Widowski (Netherlands)

10.00 – 10.20 Coffee break

10.20 – 10.50 *A vascular perspective on fetal lung development in health and disease*

Dr. Robbert Rottier (Netherlands)

10.50 – 11.05 *OP2: Some new thoughts on the 3-dimensional form and function of the distal air exchange surfaces within the lung* – David Warburton (USA)

11.05 – 11.30 General discussion

11.30 – 12.15 **Poster session**

Chairs: Dr. Niki Ubags (Switzerland) and Dr. Jennifer Collins (Netherlands)

12.15 – 13.30 Lunch

Session II – Priming the developing lung for disease: Cellular mechanisms

Chairs: Dr. Mandy Laube (Germany) and Prof. Dr. Suhas Kallapur (USA)

13.30 – 14.00 *Resident alveolar macrophages and their role in lung alveolarization and BPD*
Dr. Rory Morty (Germany)

14.00 – 14.15 *OP3: Live imaging of alveologenesis in precision-cut lung slices reveals dynamic epithelial cell behaviour* – Charlotte Dean (UK)

14.15 – 14.45 *Role of lung mesenchymal stromal cells in the developing lung and BPD*
Dr. Jennifer Collins (Netherlands)

14.45 – 15.15 General discussion

15.15 – 15.30 Coffee break

Breakout Sessions

15.30 – 15.40	Introduction to breakout sessions
15.40 – 17.10	<p><u>Break out session 1:</u> <i>Pre- and postnatal exposures: priming the developing lung for disease</i></p> <p>Moderators/chairs: Dr Niki Reynaert and Prof Dr Sophie Lanone</p> <p>Panel:</p> <ul style="list-style-type: none">- Prof Dr Suhas Kallapur- Dr Robert Rottier- Dr Rory Morty- Dr Mandy Laube
17.10 – 18.40	<p><u>Break out session 2:</u> <i>Early life host-microbe interaction: importance in the development of respiratory diseases</i></p> <p>Moderators/chairs: Prof Hermelijn Smits and Dr Miguel Alejandre Alcazar</p> <p>Panel:</p> <ul style="list-style-type: none">- Prof Dr Sylvia Knapp- Prof Dr Clare Lloyd- Prof Dr Deborah Strickland- Dr Céline Pattaroni- Dr Wouter de Steenhuijsen Piters
18.40 – 19.00	General discussion breakout sessions

Tuesday, 12 November 2019

Session III: Immune maturation and the development of respiratory disease

Chairs: Jasmijn Schrumpf (Netherlands) and Dr. Gerdien Tramper (Netherlands)

08.00 – 08.30	<u>Development of the pulmonary immune system in the neonatal period</u> Dr. Sylvia Knapp (Austria)
08.30 – 08.45	<u>OP4: Single-cell platforms for the analysis of local airway responses to allergen</u> – Hermelijne Smits (Netherlands)
08.45 – 09.15	<u>Development of allergic immunity in the lung during early life</u> Prof. Dr. Clare Lloyd (UK)
09.15 – 09.45	<u>Immune maturation and priming in the 'Atopic March'</u> Dr. Niki Ubags (Switzerland)
09.45 – 10.10	General discussion
10.10 – 10.30	Coffee break

Session IV: Early life exposures and susceptibility to disease

Chairs: Dr. Rachel Foong (Australia) and Dr. Christoph Beisswenger (Germany)

10.30 – 11.00	<u>Transplacental immune modulation in the prevention of asthma development</u> Prof. Dr. Deborah Strickland (Australia)
11.00 – 11.15	<u>OP5: FoxO1 activation protects against IL-6-mediated perinatal metabolic programming of bronchial and vascular remodeling</u> - Miguel Alejandre Alcazar (Germany)

11.15 – 11.45 *Host-microbe interactions in the neonatal lung*

Dr. Céline Pattaroni (Australia)

11.45 – 12.15 *Early life respiratory infections: diagnosis, prognosis and treatment*

Dr. Wouter de Steenhuijsen Piters (Netherlands)

12.15 – 12.45 General discussion

12.45 – 13.30 Concluding remarks

Dr. Niki Ubags (Switzerland) and Dr. Jennifer Collins (Netherlands)

13.30 Lunch on departure