

# **Symposium of the NRS Platform experimental models in pulmonary research**

**When: October 11<sup>th</sup>, 2019.**

**Location: Nutricia Research, Uppsalalaan 12, 3584 CT Utrecht, de Uithof.**

9.45-10.15 hr. **Coffee/Tea, welcome and introduction.**

Gert Folkerts (*Pharmacology, Utrecht University*), Rudi Hendriks (*Pulmonology, Erasmus MC, Rotterdam*) and Gerry Wagenaar (*Faculty of Science, Free University, Amsterdam*).

10.15-12.00 hr. **Asthma and COPD**

10.15-11.00 hr. **Keynote lecture**

- \* Use of mouse models of severe asthma and COPD to develop improved therapies.  
Philip Hansbro, *Director, Centre for Inflammation, University of Technology, School of Life Sciences, Ultimo, NSW 2007 & Centenary Institute, Sydney, NSW 2209.*  
*Priority Research Centre for Healthy Lungs, University of Newcastle, & Vaccines, Infection, Viruses & Asthma (VIVA) group, Hunter Medical Research Institute, Newcastle, Australia.*
- \* Notch signaling licenses allergic airway inflammation in mice by promoting lymph node egress of T helper 2 cells.  
Rudi Hendriks, *Department of Pulmonary Medicine, Erasmus MC Rotterdam*
- \* Optimization of an in vitro bronchial epithelial cell model for chronic air pollution exposure  
Hamed Janbazacyabar, *Department of Pharmacology, UIPS, Utrecht University.*

12.00-12.45 hr. **Lunch**

12.45-13.45 hr. **Airway barrier function and disease modelling in organoids**

- \* Short-chain fatty acids increase and restore the barrier function of human bronchial airway epithelial cells.  
Levi B. Richards, *Department of Respiratory Medicine, Amsterdam UMC, location AMC*
- \* Disease modelling in organoids for pharmacological research.  
Xinhui Wu, *Department of Molecular Pharmacology, University of Groningen, Groningen.*

13.45-14.45 hr. **Airway inflammation and respiratory infections**

- \* Mechanism behind the Anti-inflammatory action of oligosaccharides in vitro and in vivo: respiratory infections studies.  
Yang Cai, *Department of Pharmacology, UIPS, Utrecht University.*
- \* Pathogenesis of Varicella Pneumonia.  
Georges Verjans, *Department of Virosciences, Erasmus MC Rotterdam.*

**Coffee and tea break**

14.45-15.15 hr.

15.15-16.15 hr. **Neonatal and pediatric lung disease**

- \* Elucidating the impact of combined hyperoxia and antibiotics exposure on lung mesenchymal stromal cell populations and lung development in neonatal mice.  
Jennifer Collins, *Department Pediatric Surgery, Sophia Children's Hospital, Erasmus University Medical Centre, Rotterdam.*
- \* Perinatal stress and adverse pulmonary outcomes – lessons from pre-clinical ovine models.  
Helene Widowski, *Department of Pediatrics, Maastricht University Medical Center, Maastricht.*

16.15-17.00 hr. **Keynote lecture**

- \* Idiopathic Pulmonary Fibrosis: a genetic disease involving the peripheral airways.  
David Schwartz, *Professor of Medicine and Immunology, Department of Medicine, University of Colorado, Denver, USA.*

17.00-18.30 hr.:

**Network meeting**

**Drinks and Italian Buffet**

**“Nutricia Tour” guided by Karin Knipping (25 min)**

