

Symposium of the NRS Platform animal models in pulmonary research

When: October 14th, 2016

Location: Marinus Ruppert building, room 042, Leuvenlaan 21, 3584 CE Utrecht, de Uithof

9.30-10.00 hr Welcome and introduction

Gert Folkerts (*Pharmacology, Utrecht University*), Rudi Hendriks (*Pulmonology, Erasmus MC, Rotterdam*) and Gerry Wagenaar (*Pediatrics, LUMC, Leiden*).

10.00-10.45 hr Drug development in asthma and COPD

* Development and use of novel mouse models to develop drugs against asthma and COPD.

Klaus Erb, *Boehringer Ingelheim, Germany*.

10.45-12.45 hr Lung inflammation, pulmonary hypertension and airway narrowing

* Mechanisms underlying pollutant-induced inflammatory lung responses.

Katrien de Grove, *Respiratory Medicine, Ghent University Hospital, Belgium*.

* Treatment with a lysate of *Helicobacter pylori* reduces allergic airway inflammation in mice
Yolanda van Wijck, *Pulmonology, Leiden University Medical Center, Leiden*.

* Parenchymal disruption by *ex vivo* elastase treatment enhances airway narrowing in mice
precision cut lung slices.

Eline van Dijk, *Pharmacology, Groningen University, Groningen*.

* Mouse models for inflammation driven pulmonary hypertension.

Thomas Koudstaal, *Pulmonary Medicine, Erasmus MC, Rotterdam*.

12.45-13.15 hr Lunch

13.15-14.00 hr Lung inflammation II

* The use of murine models to probe the opposing roles of leukotriene A4 hydrolase in regulating pulmonary inflammation.

Robert Snelgrove, *National Heart and Lung Institute, Imperial College London, UK*.

14.00-15.30 hr Perinatal intervention and viral infection

* Immune programming through maternal dietary intervention.

Astrid Hogenkamp, *Pharmacology, Utrecht University, Utrecht*.

* Altered repair potential and gene expression profile of CD146⁺ endogenous lung mesenchymal stromal cells in experimental bronchopulmonary dysplasia.

Jennifer Collins, *Pediatric Surgery, ErasmusMC, Rotterdam*.

* *In vivo* modeling of Respiratory Syncytial Virus infection.

Kuldeep Kumawat, *Pediatrics, Utrecht University Medical Center, Utrecht*.

15.30-16.00 hr Tea and coffee break

16.00-17.00 hr Imaging and lung cancer

* Nanoscale lung illumination: Local cyclic nucleotide microdomains of structural lung cells
Haoxiao Zuo, *Pharmacology, Groningen University, Groningen*.

* Normal tissue effects and tumor control in lung cancer models

Marc Vooijs, *Radiotherapy, Maastricht University Medical Center, Maastricht*

17.00-18.30 hr Network meeting with drinks and Italian Buffet