Symposium of the NRS Platform animal models in pulmonary research

When: October 17th, 2014.
Location: David de Wied gebouw, M2.01, Universiteitsweg 99, 3584 CG Utrecht, de Uithof.

9.00-9.15 hr. **Welcome and introduction.**
Gert Folkerts *(Pharmacology, Utrecht University, Rudi Hendriks (Pulmonology, Erasmus MC, Rotterdam)* and Gerry Wagenaar *(Pediatrics, LUMC, Leiden).*

9.15-11.00 hr. **Perinatal lung injury.**

* Using mouse models to understand how the oxygen environment at birth influences children's health.
  Michael O'Reilly, Pediatrics, University of Rochester, Rochester, USA.
* The oxygen environment at birth is a redox regulator of lung stem cell expansion.
  Min Yee, Pediatrics, University of Rochester, Rochester, USA.
* Lung development and lung pathologies in perinatology: lessons from translational ovine models.
  Monique Willems, Pediatrics, MUMC, Maastricht.

11.00-11.20 hr. C**offee.**

11.20-12.20 hr. **Pulmonary arterial hypertension and emphysema.**

* New insights in PGP synthesis and breakdown: Implications for the development of lung emphysema.
  Mojtaba Abdul Roda, Pharmacology, UIPS, Utrecht University, Utrecht.
* Novel animal models for pulmonary arterial hypertension.
  Chris Happé, Pulmonology, Free University MC, Amsterdam.

12.20-12.50 hr. **Lunch.**

12.50-15.05 hr. **Asthma.**

* The role of dendritic and epithelial cells in asthma.
  Hamida Hammad, VIB Inflammation Research Center, University of Ghent and Respiratory Medicine, University Hospital Ghent, Ghent, Belgium.
* Vitamin D3 is effective as an adjuvant for subcutaneous immunotherapy in a grass pollen-driven mouse model of asthma.
  Laura Hesse, Pathology and Medical Biology, UMCG, Groningen.
* Sequential effect of subcutaneous immunotherapy for birch pollen allergy on Th2 cell suppression and attenuation of airway hyperreactivity in a murine asthma model.
  Leonie van Rijt, Experimental Immunology, AMC, Amsterdam.
* Eosinophilic or neutrophilic asthma: a decisive role of the NF-kappaB regulator A20 in dendritic cells in a house dust mite driven mouse model of asthma.
  Heleen Vroman, Pulmonary Medicine, Erasmus MC, Rotterdam.

15.05-15.25 hr. **Tea and coffee break.**

15.25-16.25 hr. **Bacterial and ventilator-induced lung injury.**

* Pro-resolving activity by the HDAC-inhibitor phenylbutyrate reduces murine Pseudomonas aeruginosa-induced lung inflammation.
  Anne van der Does, Physiology & Pharmacology, Karolinska Institutet, Stockholm, Sweden.
* Age-dependent changes in the pulmonary renin angiotensin system in rats with ventilator- and/or LPS-induced lung injury.
  Laura Schouten, Intensive Care Medicine and Paediatric Intensive Care, AMC, Amsterdam.

16.25-17.25 hr. **Airway hyperreactivity and remodelling.**

* Epac1 and Epac2 are differentially involved in inflammatory and remodelling processes induced by cigarette smoke.
  Anouk Oldenburger, Molecular Pharmacology, University of Groningen, Groningen.
* Mouse models to study the role of Protocadherine-1 and E-cadherine in allergic airway inflammation and hyperreactivity
  Martijn Nawijn, Pathology and Medical Biology, UMCG, Groningen.

17.30-18.30 hr. **Network meeting with drinks and Italian Buffet.**