

Symposium of the NRS Task Force animal models in pulmonary research.

When: 10 and 11 October 2012.

Location: David de Wied gebouw, M2.01, Universiteitsweg 99, 3584 CG Utrecht, de Uithof.

Scientific program

October 10th, 9.30-10.00 hr. **Arrival and coffee**

10.00-10.15 hr. **Welcome and introduction.**

Gert Folkerts (*Utrecht University*) and Gerry Wagenaar (*LUMC, Leiden*).

10.15-11.30 hr: **Lung tissue remodeling.**

- * Tissue remodeling in pulmonary disease.
Reinoud Gosens (*Molecular Pharmacology, Groningen University, Groningen*)
- * Role of anticholinergic agents and muscarine receptor deficiency on pulmonary inflammation and remodelling.
Loes Kistenmaker (*Molecular Pharmacology, Groningen University, Groningen*)

11.30-11.45 hr. **Coffee**

11.45-13.15 hr. **Asthma.**

- * The role T-cells in asthma development
Christian Taube (*Pulmonology, LUMC, Leiden*)
- * The role of dendritic cells in asthma
Mirjam Kool (*Immunoregulation and Mucosal Immunology, Ghent University, Belgium and Pulmonary Medicine, Erasmus MC Rotterdam*)
- * The role of the epithelium in house dust mite-induced asthma.
Sijranke Post (*Pathology & Medical Biology, UMCG, Groningen*)

13.15-14.00 hr. **lunch**

14.00-16.00 hr. **Drug development**

- * Innovative medicines in airway disease.
Gaell Mayer (*Respiratory and Inflammation Innovative Medicines, AstraZeneca*)
- * Probiotics and synbiotics in airway diseases
Paul Vos (*Danone Research – Centre for Specialised Nutrition, Wageningen, The Netherlands*)
- * The development of an inhaled PDE4 inhibitor
Richard Knowles (*Arachos Pharma, ex GSK, Stevenage*)

16.00-16.15 hr. **Tea and coffee break**

16.15-17.45 hr **emphysema**

- * Epithelial innate immune responses to cigarette smoke: role in COPD?
Marco van der Toorn (*Pathology & Medical Biology, UMCG, Groningen*)
- * The role of Toll-like receptors in emphysema
Gillina Bezemer (*UU, Utrecht*).
- * Fibulin-4 deficiency leads to aortic aneurysms and lung emphysema.
Natasja Ramnath (*Cell Biology and Genetics, Erasmus MC, Rotterdam*)

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10.00-11.15 hr: **Wnt signaling in pulmonary disease**

- * Role of wnt signaling in pulmonary disease.
Melanie Königshoff (*Comprehensive Pneumology Center, München, Germany*)
- * Imaging Wnt/beta-catenin signalling in an ex vivo tissue culture model of lung repair.
Franziska Uhl. (*Comprehensive Pneumology Center, München, Germany*)

11.15-11.45 hr. **Coffee**

11.45-13.15 hr **Fetal and neonatal lung disease, and pulmonary hypertension**

- * Treatment options for experimental neonatal chronic lung disease.
Gerry Wagenaar (*Pediatrics, Neonatology, LUMC, Leiden*)
- * Ovine fetal lung development after exposure to lipopolysaccharide-induced chorioamnionitis and antenatal corticosteroids.
Elke Kuypers (*Pediatrics, Neuroscience, MUMC, Maastricht*)
- * Animal models for pulmonary arterial hypertension.
Ingrid Schaliij (*Lung Diseases, VUMC, Amsterdam*)

12.40-13.40 hr. **lunch**

13.40-15.20 hr. **micro-CT, virus-induced lung injury and sarcoidosis**

- * Micro CT in cardiopulmonary disease
Jeroen Hostens (*Skyscan, Kontich, Belgium*)
- * Animal models to study virus- induced lung injury.
Rene Lutter (*Pulmonology and Experimental Immunology, AMC, Amsterdam*)
- * Animal models of sarcoidosis.
Alex Klein-Jan (*Erasmus MC, Rotterdam*)

15.20-15.30 hr. **Closure and refreshments**

Gert Folkerts (*Utrecht University*) and Gerry Wagenaar (*LUMC, Leiden*).