

Symposium of the NRS Platform Animal models in pulmonary research

When: October 12th, 2018.

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

9.45-10.15 hr. Arrival, 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. Neonatal and pediatric lung disease

10.15-11.00 hr. Keynote lecture

- * Modelling bronchopulmonary dysplasia in experimental animals: state of the art, and current challenges.
Rory Morty, *Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany.*
- * Determining causal roles for non-coding RNA in arrested lung development associated with experimental bronchopulmonary dysplasia.
Claudio Nardiello, *Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany.*
- * Monocyte subsets during Mycoplasma pneumoniae respiratory tract infection and carriage: a new diagnostic test?
Ruben de Groot, *Pediatrics, Erasmus MC, Rotterdam.*

12.00-12.45 hr. Lunch

12.45-13.30 hr. Keynote lecture on pulmonary drug discovery

- * Multimodality imaging approach in pulmonary drug discovery.
Fabio Stellari, *Head Molecular imaging facility, Department of Pharmacology, Chiesi Farmaceutici, Parma, Italy.*

13.30-15.00 hr. Asthma

- * The pathophysiological role of PDE3 in allergic asthma.
Alex KleinJan, *Pulmonary Medicine, Erasmus MC, Rotterdam.*
- * Neuronal remodeling: a novel perspective on airway hyperreactivity in asthma.
Loes Kistemaker, *Molecular Pharmacology, University of Groningen, Groningen.*
- * Conjugated Alpha-Alumina nanoparticle with vasoactive intestinal peptide as a nano-drug in treatment of allergic asthma in mice.
Esmail Mortaz, *Pharmacology, Utrecht University and Immunology, Faculty of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

15.00-15.30 Tea and coffee break

15.30-16.30 COPD-related muscle wasting and pulmonary hypertension

- * Mechanisms underlying COPD-related muscle wasting.
Ramon Langen, *Respiratory Medicine, Maastricht University Medical Center, Maastricht.*
- * Monoamine oxidase A inhibition in different rat models of pulmonary hypertension.
Eva Peters, *Departments of Pulmonary Medicine and Physiology, Amsterdam UMC, Free University, Amsterdam.*

16.30-17.00 hr. Animal models in translational research

- * Promoting transparency in preclinical research: preclinicaltrials.eu, an international register of preclinical trial protocols.
Mira van der Naald, *Cardiology, University Medical Center Utrecht, Utrecht.*

17.15-18.30 hr. Network meeting with drinks and Italian Buffet