

GRK 2338 RTG
“Targets in Toxicology - Deciphering Therapeutic
Targets in Lung Toxicology”

Annual Meeting 2020

Zoom-Meetings
September 23rd – September 25th, 2020

PROGRAM



GRK 2338 Retreat PROGRAM

Wednesday, 23.09.2020_____

- 13:00 – 13:10 **Thomas Gudermann** “Welcome”
- 13:15 – 14:15 **Norbert Weissmann**, Justus-Liebig-University Giessen
Mechanisms of tobacco smoke-induced lung emphysema and pulmonary hypertension
- 14:15 – 14:30 Break

Session 1: Host: Michal Mastalerz

- 14:30 - 14:50 **Georgia Giotopoulou – P11**
Causal RNA signatures in lung adenocarcinoma
- 14:55 - 15:15 **Barbara Spix – P08**
Emphysema-like lung phenotype in TRPML3 knockout mice
- 15:20– 15:40 **Christian Schremmer – P04**
TRP channels as toxicant sensors in the lung?
- 15:45 - 16:05 **Sarah Zeitlmayr – P10**
A role for TRPM7 in plasmin activation in lung cells

Thursday, 24.09.2020 _____

Session 2: Host: Christian Schremmer

- 09:00 - 09:20 **Michal Mastalerz – P07**
Response of COPD and IPF bronchial epithelial cells to cigarette smoke
- 09:25 - 09:45 **Paula Vaccarello – P09**
miR-21 role in pulmonary fibrosis
- 09:50 - 10:10 **Erika Gonzalez – P06**
Cellular effects of moderate hyperoxia in the developing lung
- 10:15 - 10:35 **Jonas Tigges – P02**
Evaluation of lung injury and inflammation induced by organophosphorus compounds using precision cut lung slices (PCLS)
- 10:40 – 11:00 **Florian Schelter – P12**
Corona-virus and a potential treatment
- 15:00 – 16:00 **GRK 2338 Assembly**

Friday, 25.09.2020

Session 3 Part I: Chair: Erika Gonzalez

- 09:00 – 09:20 **Katharina Müller-Dott – P03**
Isolation of hTRPA1 from HEK293 Cells
- 09:25 – 09:45 **Yves Haufe – P01**
Positive Allosteric Modulators - Characterization of Bispyridinium compounds as possible treatment against Organophosphate poisoning
- 09:50 – 10:10 **Xin Zhang – P05**
ErbB3 signaling in the healthy and injured developing lung
- 10:10 – 10:25 *Break*

Session 3 Part II: Chair: Jonas Tigges

- 10:25 – 10:45 **Sabine Behrend – P11 Affiliate**
Mapping of Kras mutations during chemical carcinogenesis
- 10:50 – 11:10 **Ashesh Chakrabarty – P07 Affiliate**
Establishment of a human in-vitro model for lung epithelial repair and regeneration
- 11:15 – 11:35 **Rachel Tang – P08 Affiliate**
Functional characterization of two-pore channel 2 (TPC2) accessory proteins