

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

Annual Meeting 2019

Haus der bayrischen Landwirtschaft Herrsching
September 30 – October 02, 2019

PROGRAM



GRK 2338 Retreat PROGRAM

Monday, 30.09.2019

- 10:00 *Departure Munich Central Station*
- 12:00 – 13:00 *Lunch*
- 13:00 – 13:30 **Thomas Gudermann** “Welcome”
- 13:30 – 14:15 **Hans Zischka**, Helmholtz Zentrum München
*Mitochondrial toxicology:
Rescuing mitochondria in Wilson disease avoids acute liver failure*
- 14:15 – 15:00 **Otmar Schmid**, Helmholtz Zentrum München
What is best dose metric for the toxicology of inhaled particles: mass, surface area, number or what?

Session 1: Chair: Jonas Tigges & Katharina Müller-Dott

- 15:15 – 15:35 **Yves Haufe – P01**
Positive Allosteric Modulators - Possible treatment against Organophosphate poisoning
- 15:40 – 16:00 **Barbara Spix – P08**
Emphysema-like lung phenotype in Trpml3 knockout mice
- 16:00– 16:30 *Coffee*
- 16:30 – 16:50 **Sarah Zeitlmayr – P10**
Effects of TRPM7 on TGF- β -induced signaling in lung cells
- 16:55 – 17:15 **Christian Schremmer – P04**
The Isolated Perfused Mouse Lung as an important tool in molecular toxicology

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Session 2: Chair: Georgia Giotopoulou & Xin Zhang

- 17:30 – 17:50 **Michal Mastalerz – P07**
Susceptibility and response of primary human bronchial epithelial cells to cigarette smoke
- 17:55 – 18:15 **Ashesh Chakraborty – P07 Affiliate**
Establishment of a human in vitro model for lung epithelial repair and regeneration
- 19:00 – 20:00 *Dinner*
- 20:00 **Mix and Meet at the Poster**

Tuesday, 01.10.2019

07:30 – 09:00 *Breakfast*

Session 3: Chair: Barbara Spix & Sarah Zeitlmayr

- 09:00 – 09:20 **Paula Vaccarello – P09**
Deciphering miR-21 role in pulmonary fibrosis
- 09:25 – 09:45 **Florian Schelter – P12**
New RNA Modifications and their detection in human samples
- 09:50 – 10:10 **Suhasini Rajan – P04 Affiliate**
The essential functions of TRPV4 channel in alveolar epithelial cells and lung fibroblasts
- 10:15 – 10:35 **Rachel Tang – P08 Affiliate**
The molecular, functional and physiological role of putative transporter CL3 in Batten Disease
- 10:35 – 11:00 *Coffee*

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Session 4: Chair: Yves Haufe, Christian Schremmer & Erika Gonzalez

- 11:00 - 11:20* **Jonas Tigges – P02**
Evaluation of lung injury induced by organophosphorus compounds using precision cut lung slices (PCLS)
- 11:25 - 11:45* **Katharina Müller-Dott – P03**
Identification and Significance of Sulfur Mustard-induced TRP Channel Modifications
- 11:50 - 12:10* **Florian Eggerbauer – P04 Affiliate**
Alkylating Compounds And Their Effect On Transient Receptor Potential (TRP) Ion Channels
- 12:15 - 12:35* **Antonio Ramirez Fernandez – P01 Affiliate**
Comparison of P2X7 protein expression in two bac- transgenic reporter mouse models
- 12:35 – 14:00* *Lunch*
- 14:00 - 15:00* **Livia A. Veress, University of Colorado Denver, US**
Sulfur mustard inhalation-induced pulmonary injury
- 15:00 – 16:00* **GRK 2338 Assembly**
- 19:00 – 20:00* *Dinner*
- 20:00* **Mix and Meet at the Poster**

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Wednesday, 02.10.2019

07:30 - 09:00 *Breakfast*

Session 5: Chair: Michal Mastalerz, Florian Schelter & Paula Vaccarello

09:00 - 10:00 **Martin F. Wilks**, University of Basel, Switzerland
Pesticides, cancer and glyphosate: where toxicology meets politics

10:10 - 10:30 **Georgia Giotopoulou – P11**
Environmental Mutational Imprints in Lung Adenocarcinoma

10:30 - 11:00 *Coffee*

11:00 - 11:20 **Xin Zhang – P06**
t.b.a.

11:25 - 11:45 **Erika Gonzalez – P05**
t.b.a.

Session 6:

11:50 - 12:10 **Thomas Gudermann – Poster Price**

12:30 - 13:30 *Lunch*

14:00 *Departure*