

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

Annual Research Retreat 2023

Schloss Tutzing
October 30 – October 31, 2023

PROGRAM



Research Training Group 2338 – Targets in Toxicology



Monday, 30.10.2023

- 11:00 – 11:15 **Thomas Gudermann** “Welcome”
- 11:15 – 12:00 **Martina Schmidt**
Taking the lead in targeting nanocompartments: Translational value of lung studies
- 12:00 – 13:00 *Lunch*
- 13:00 – 14:00 **Martin Sos**
Dissecting mechanisms of lung cancer transformation

Session 1: Chair: Fee Gölitz & Helena Sieber

- 14:00 – 14:20 **Marie Zöller – P07**
Transient and persistent proteome changes of human bronchial epithelial cells in response to cigarette smoke
- 14:25 – 14:45 **Tatiana Abikeeva – P09**
Targeted RNA delivery to treat inflammation-related pulmonary fibrosis
- 14:50 – 15:20 *Coffee*
- 15:20 – 15:40 **Lena Schaller – P04**
TRPM2 and TRPV4 in pulmonary endothelial and epithelial barrier function
- 15:45 – 16:05 **Ahmed Hassan – P06**
Distal lung cell circuit dynamics in human lung fibrogenesis

Session 2: Chair: Fee Gölitz & Helena Sieber

- 16:10 – 16:30 **Leonor Correia – P10**
Role of TRPM6 and TRPM7 channels for the uptake of physiological and toxic divalent cations in AII cells
- 16:35 – 16:55 **Benteng Deng – P11 Affiliate**
CD8+ T cell trajectory subtypes determine clinical outcome and therapy response in LUAD
- 18:00 – 19:00 *Dinner*
- 20:00 **Networking and Scientific Exchange**

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Tuesday, 31.10.2023

08:00 – 09:00 *Breakfast*

Session 3: Chair: Gonxhe Lokaj + Aakruti Nayak

- 09:10 - 09:30 **Fee Göllitz – P02**
Precision cut lung slices as a versatile research tool:
AChE reactivator research and cold-storage preservation
- 09:35 - 09:55 **Aakruti Nayak – P05**
Effects of long-term oxygen therapy on p53 dependent cellular
crosstalk in idiopathic pulmonary fibrosis – studies in advanced
organoid models
- 10:00 - 10:20 **Helena Sieber – P03**
Malodorous mercaptans as riot control agents: biomarkers of *in vitro*
exposure identified by mass spectrometry
- 10:25 - 10:45 **Jahongir Nabiev – P12**
STING-directed therapeutics for treatment of lung inflammatory
diseases and cancer
- 10:45 – 11:15 *Coffee*

Session 4: Chair: Gonxhe Lokaj + Aakruti Nayak

- 11:15 - 11:35 **Eva-Maria Weiden – P08**
Role of TRPML1 in chronic toxic lung disease
- 11:40 - 12:00 **Lilith Trassl – P11 Affiliate**
Transcriptomic characterization of lung malignancies
- 12:05 - 12:25 **Gonxhe Lokaj – P01**
Generation and characterization of functional insect nAChRs chimeras
- 12:30 - 13:30 *Lunch*
- 13:30- 13:50 **Jianlong Jia – P11**
Identification of the cells of origin of squamous cell lung carcinoma

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- 13:55 – 14:15 **Elisa Fiedler – P11 MD**
Comprehensive clinical profiling of a Lung squamous carcinoma cohort
- 14:20 – 14:30 **Thomas Gudermann “Closing”**
- 14:30 – 15:00 *Coffee*
- 15:00 – 16:00 **GRK Assembly with Speaker, PIs, Student Representatives and Coordinator**