

Research School Hybrid-Retreat 2020 - Program



The Hybrid-Retreat takes place:

- in part at the CPC/ ILBD (GH) in Seminar Room 2
- and in part virtually, using the GoToMeeting conference system.

Thursday, June 25, 2020

Session 1: **Doctoral candidates present:** Sabine Behrend, Ashesh Chakraborty, Giorgia Giotopoulou, Michal Mastalerz, Ayse Seda Yazgili, Tingting Wu
Faculty onsite: Claudia Staab-Weijnitz, Silke Meiners
Everyone else: Please log in to the meeting using the link below.
Faculty online: Anne Hilgendorff, Mareike Lehmann, Anne-Sophie Lamort, Tobias Stöger

08:30 - 09:00 Link for logging in: <https://global.gotomeeting.com/join/169118245>
a personal welcome to: Sabine Behrend, Ashesh Chakraborty, Giorgia Giotopoulou, Michal Mastalerz, Ayse Seda Yazgili; upload of presentations

09:00 - 09:10 Welcome and Introduction, Hygiene Measures
Claudia Staab-Weijnitz

Project Presentations – Session 1

Chairs: Ashesh Chakraborty & Michal Mastalerz on site, Tingting Wu

09:10 - 09:30 Georgia Giotopoulou - Causal RNA signatures in lung adenocarcinoma

09:30 - 09:50 Sabine Behrend - Mapping of *Kras* mutations during chemical carcinogenesis

09:50 - 10:10 Ayse Seda Yazgili - Regulation of PA200 in Lung Cancer

10:10 - 10:30 *Break*

Chairs: Sabine Behrend, Georgia Giotopoulou, Ayse Seda Yazgili

10:30 - 10:50 Tingting Wu - The IL-1 Antagonist Anakinra Attenuates Glioblastoma Aggressiveness by Dampening Tumor-Associated Inflammation.

10:50 - 11:10 Michal Mastalerz - Analysis of different *in vitro* bronchial exposure models points towards the basal cell as the primary responder to cigarette smoke

11:10 - 11:30 Ashesh Chakraborty - Establishment of a human *in vitro* model for lung epithelial repair and regeneration

11:30 – 13:00 *Individual Lunch / Feedback on presentations of session 1 (15 min each)*
Presenters in order of presentation
Faculty onsite: Silke Meiners, Claudia Staab-Weijnitz

13:00 - 13:15 **Introduction to GeoCaching, Rules and Assignment**

Claudia Staab-Weijnitz, Karin Herbert

13:15 – 17:15 *GeoCaching in Munich - Who finds the highest number of hidden treasures?*

17:15 - 18:00 **Introduction to Grant Writing and Assignment**

Claudia Staab-Weijnitz

Link for logging in: <https://global.gotomeeting.com/join/238325445>

Friday, June 26, 2020

Session 2: **Doctoral candidates present:** Qiangjiang Hu, Anna Dmitrieva, Verena Häfner, Lianyong Han, Qiongliang Liu, Orak Sezer
Faculty onsite : Tobias Stöger, Anne-Sophie Lamort
Everyone else: Please log in to the meeting using the link below.
Faculty online: Mareike Lehmann, Claudia Staab-Weijnitz

08:30 - 09:00 Link for logging in: <https://global.gotomeeting.com/join/307582637>
& a personal welcome to: Qiangjiang Hu, Anna Dmitrieva, Verena Häfner, Lianyong Han, Qiongliang Liu, Orak Sezer; *upload of presentations*

Project Presentations – Session 2

Chairs: Qiongliang Liu, Orak Sezer, Qiangjiang Hu

09:00 - 09:20 Anna Dmitrieva - The role of virus infection in the development of bronchopulmonary dysplasia (BPD)

09:20 - 09:40 Verena Häfner - Reactivation of latent virus infection – a link between the acute inflammatory response to air pollutants and chronic lung disease in a mouse model

09:40 - 10:00 Lianyong Han - By nanoparticle exposure triggered MAPK signaling contributes to gammaherpesvirus reactivation

10:00 - 10:30 *Break*

Chairs: Anna Dmitrieva, Verena Häfner, Lianyong Han

10:30 - 10:50 Qiongliang Liu - Lung intravital microscopy facilitates real time in vivo investigation of particle dynamics and innate immune responses during ventilator-assisted nanoparticle inhalation

10:50 - 11:10 Orak Sezer - Towards prediction of the pharmacokinetics of inhaled nanomedicine from physiological cell models: A case study with liposomal Cyclosporin A (L-CsA) using the VITROCELL CLOUD system

11:10 - 11:30 Qiangjiang Hu - WNT/ β -catenin signaling induces cellular senescence and profibrotic phenotype in lung alveolar epithelial cells

11:30 – 13:00 *Individual Lunch / Feedback on presentations of session 1 (15 min each)*

Presenters in order of presentation

Faculty onsite: Anne-Sophie Lamort, Tobias Stöger

Session 3: **Doctoral candidates present:** Meshal Ansari, Valeria Viteri Alvarez, Miriam Kastlmeier, Aydan Sardogan, Haifeng Ye, Shaohua Zu
Faculty present: Claudia Staab-Weijnitz, Tobias Stöger
Everyone else: Please log in to the meeting using the link below.

13:00 - 13:30 Link for logging in: <https://global.gotomeeting.com/join/307582637>
& a personal welcome to: Meshal Ansari, Valeria Viteri Alvarez, Miriam Kastlmeier, Aydan Sardogan, Haifeng Ye, Shaohua Zu; *upload of presentations*

Project Presentations – Session 3

Chairs: Aydan Sardogan, Haifeng Ye, Shaohua Zhu

13:30 - 13:50 Meshal Ansari - Precision cut lung slice cultures coupled to single cell RNA-seq to model human lung fibrogenesis
13:50 - 14:10 Valeria Viteri Alvarez - Investigating Myeloid-derived suppressor cells (M-MDSC) homing and function in Idiopathic Pulmonary Fibrosis
14:10 - 14:30 Miriam Kastlmeier - Modelling epithelial-fibroblastic cross-talk in vitro: using hiPSCs derived lung cells targeting fibrotic regeneration

14:30 - 15:00 *Break*

Chairs: Meshal Ansari, Valeria Viteri Alvarez, Miriam Kastlmeier

15:00 - 15:20 Aydan Sardogan - *in vivo* clonal analysis & lineage tracing of mesothelial cells
15:20 - 15:40 Haifeng Ye - Heterogeneity of fascia movement mediated by hyaluronan leads to discrepancy of wound healing in the skin
15:40 - 16:00 Shaohua Zhu - Fascia as a repository of mobile scar tissue

16:00 - 16:15 *Short Break*

16:15 - 17:00 Wrap-up GeoCaching, Feedback + Closing Remarks

17:00 - 18:30 *Feedback on presentations of session 3 (15 min each)*
Presenters in order of presentation
Faculty on site: Claudia Staab-Weijnitz, Tobias Stöger

Practical Information

Presentations: 15 min + 5 min discussion.

Feedback on the presentations is provided by the present Research School faculty after each session.

Mandatory retreat rules to be observed (for people to be present in seminar room)

Most important: If you feel sick or have any kinds of symptoms of a respiratory infection, you have to stay at home. Ideally, you have installed the Corona Warning App and it states that you have a low risk for infection.

Rules for usage of the seminar room, laptop etc.

- one fixed entrance, one fixed exit (the seminar room has two entrances)
- Distance rules must always be observed (1.5 m distance)
- hand disinfection before entering
- Chairs are only to be occupied at a distance of at least 1.5 m
- Mouth and nose protection is mandatory, except for the current presenter
- airing every 30 minutes
- only one person operates the computer per day
- Pointers are disinfected before use or transfer



Preparations for GeoCaching (<https://www.geocaching.com/>)

Please note, that for Thursday afternoon, there will be an **outbreak activity** which requires some **preparations** from your side beforehand.

- Most importantly, prior to the retreat, register for GeoCaching and download the free **Geo-caching app** on your mobile (<https://www.geocaching.com/>)
- Plan for getting together in **groups of two to three** on Thursday afternoon
- Please observe that at least one of you needs a **smartphone with an internet connection**, ideally all of you
- At least one person in your group should be speaking **German** as many instructions how to find the caches are in German
- **Things to take along:** Pencil/pen, snacks and water; consider that you will be out for a few hours
- You may want to familiarize yourself with the idea of GeoCaching and the app - feel free to browse the website and watch some explanatory videos. Try to answer the following questions beforehand: What are muggles? What is the approximate size of a microcache, a small cache, a regular cache?
- Further instructions for the competition will be given during the retreat.