DFG Research Training Group "TJ-Train", GRK 2318

Tight junctions and their proteins:

molecular features and actions in health and disease

Retreat, September 17-19, 2018

Hotel Döllnsee-Schorfheide



September 17, 2018

12:00 - 1:00 p.m. Lunch

1:00 – 1:10 p.m. Welcome by Jörg Schulzke / Dorothee Günzel

Chair: Laura-Sophie Beier

1:10 – 2:10 p.m. Plenary lecture by Alan Yu, Kansas City, KS, USA

Chair: Susanne Krug

2:10 – 2:30 p.m. Hannah Lutz: Effects of HIV-associated inflammatory cytokines on macromole-

cule translocation across the gut mucosa

2:30 – 3:00 p.m. Carolin Grünhagen: Macromolecule uptake across the mucosa in HIV infection

3:00 – 3:30 p.m. Izabela Kowalczyk: The role of endocytic receptors in neuroepithelial integrity

and neural stem cell fate

3:30 - 4:00 p.m. Coffee break

Chair: Roland Bücker

4:00 – 4:30 p.m. Praveen Nattramilarasu: HT-29/B6-GR/MR - a cell model to investigate tight

junction alterations and ENaC dependent sodium absorption in Campylobacter

infection

4:30 – 5:00 p.m. Fábia Lobo: Campylobacteriosis and barrier-protective influences in the cell

and animal model

5:00 – 5:20 p.m. Eduard Butkevych: MLC-dependent tight junction changes during Campylo-

bacter jejuni infection in HT-29/B6 cells

5:20 – 5:40 p.m. Sholpan Omarova: Barrier- and transport function in postinfectious irritable

bowel syndrome

5:40 – 6:30 p.m. Meeting of external referees and doctoral students (without Pls)

Photo session in front of the hotel or in the garden

7:00 – 10:00 p.m. Dinner

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Berlin

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September 18, 2018

Chair: Martin Lehmann

8:30 –9:00 a.m. Hannes Gonschior: Resolving the tight junctional structure and dynamic by

using super resolution microscopy

9:00 –9:30 a.m. Deborah Delbue da Silva: IL-22 effects in cell polarity and barrier function in

intestinal epithelial cells

9:30 – 10:00 a.m. Danielle Cardoso da Silva: Tracking a primary barrier defect in celiac disease

10:00 - 10:30 a.m. Coffee break

Chair: Michael Fromm

10:30 – 11:00 a.m. Laura-Sophie Beier: Targeting of claudins by CPE-based modular biologicals

11:00 – 11:30 a.m. Jiachen Hu: Role of the tricellular tight junction in inflammatory bowel diseases

11:30 – 12:00 a.m. Carlos Ayala-Torres: Contribution of tricellulin to paracellular water permeabil-

ity in epithelia of different tightness

Photo session in front of the hotel or in the garden

12:00 – 1:00 p.m. Lunch

Chair: Deborah Delbue da Silva

1:00 - 2:00 p.m. Matthias Ocker: Medical Research - From Bench to Bedside to Office

Chair: Dominik Müller

2:00 – 2:30 p.m. Murat Seker: The role of Cnnm2 in the regulation of transepithelial magnesium

transport

2:30 – 3:00 p.m. Roman Mannweiler: Impedance spectroscopy indicates multiple barriers in

stratified epithelia

3:00 – 3:30 p.m. GRK2318, feedback and strategy for the next year

3:30 - 4:00 p.m. Coffee break

4:00 – 7:00 p.m. Debate Training for students

7:00 - 10:00 p.m. Dinner

8:00 – 9:00 p.m. Steering Committee Meeting

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September 19, 2018

Chair: Dorothee Günzel

8:30 – 9:00 a.m. Alexander Holler: Transcriptional integration of tight junction assembly in renal

epithelial cells

9:00 – 9:30 a.m. Janna Leiz: Transcriptional Networks of tight junction biogenesis in renal col-

lecting ducts

9:30 – 10:15 a.m. Susanne Krug: Electron microscopy

10:15 - 10:45 a.m. Coffee break

10:45 – 11:30 a.m. Jörg Schulzke: Correction of active transport for subepithelial resistance

11:30 – 1:00 p.m. Martin Lehmann: Super-resolution microscopy imaging of nanoscale structures

in cells and tissues

1:00 - 2:00 p.m. Lunch

End of the Retreat