

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

Tight junctions and their proteins:

molecular features and actions in health and disease

Program of the Winter School, December 7–8, 2017

Harnack-Haus, Meitner-Saal



December 7, 2017

- 09:00 – 09:15 Welcome by **Prof. Axel Pries**, Dean of the Charité – Universitätsmedizin Berlin
- 09:15 – 09:30 Introduction by **Prof. Jörg Schulzke**, Coordinator of the GRK 2318
- 09:30 – 10:30 **Plenary lecture by Prof. Mikio Furuse**, Okazaki, Japan
- 10:30 – 11:00 Coffee break**
- 11:00 – 11:20 **Roman Mannweiler**: Impedance spectroscopy of epithelial barrier properties
- 11:20 – 11:40 **Laura-Sophie Beier**: Structure-based modification of CPE to target claudins
- 11:40 – 12:00 **Carlos Ayala Torres**: Claudin- and TAMP-mediated water transport
- 12:00 – 12:20 **Hannes Gonschior**: High- and super-resolution imaging of TJ components
- 12:20 – 13:00 **Prof. Markus Bleich**, Kiel, Germany
- 13:00 – 14:00 Lunch break**
- 14:00 – 14:20 **Izabela Kowalczyk**: Neuroepithelial barrier function in brain development
- 14:20 – 14:40 **Danielle Cardoso da Silva**: Tracking a primary barrier defect in celiac disease
- 14:40 – 15:00 **Murat Seker**: The magnesiome, an integrative view of magnesium regulation
- 15:00 – 15:20 **Janna Leiz**: Transcriptional integration of TJ assembly in renal epithelial cells
– part 1
- 15:20 – 15:40 **Alexander Holler**: Transcriptional integration of TJ assembly in renal epithelial cells
– part 2
- 15:40 – 16:10 Coffee break**
- 16:10 – 16:30 **Praveen Natthamilarasu**: Toxin effects on paracellular intestinal barrier function
- 16:30 – 16:50 **Fábia Lobo de Sá**: Intestinal barrier protection during *Campylobacter* infection
- 16:50 – 17:10 **Jiachen Hu**: Role of the tricellular TJ in inflammatory bowel diseases (IBD)
- 17:10 – 17:30 **Deborah Delbue da Silva**: Epithelial dyspolarity in chronic intestinal inflammation
- 17:30 – 17:50 **Carolin Grünhagen**: Macromolecule uptake across the mucosa in HIV infection
- 18:30 – 22:00 Dinner**

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December 8, 2017

- 09:00 – 09:40 **Prof. Maria Balda**, London, UK
- 09:40 – 10:30 Election of the Steering Committee
- 10:30 – 11:00 **Coffee break**
- 11:00 – 11:20 **Yesim Yurtdas**: The role of Grhl2 in polycystic kidney disease
- 11:20 – 11:40 **Lorena Suarez**: The interactome of claudins in a renal epithelial cell line
- 11:40 – 12:40 **Prof. Michael Fromm**: Good (and bad) scientific practice
- 12:40 – 14:00 **Lunch break**
(12:40 – 13:00 Inaugural meeting of the Steering Committee)
- 14:00 – 15:30 **Daniel Unsöld**: Interactive lecture: Presence and body language in the workplace
- 15:30 – 16:00 **Prof. Dorothee Günzel**: Trans- and paracellular transport coupling
- 16:00 – 16:30 **Coffee break**