

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
- Chair:* Dorothee Günzel
- 09:30 – 10:30 **Plenary lecture by Prof. Mikio Furuse**, Okazaki, Japan
- 10:30 – 11:00 Coffee break**
- Chair:* Martin Lehmann
- 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 (*Chair:* Carlos Ayala-Torres)
- 13:00 – 14:00 Lunch break**
- Chair:* Dominik Müller
- 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**
- Chairs:* Susanne Krug, Roland Bückner
- 16:10 – 16:30 **Praveen Natthamilarasu:** Toxin effects on paracellular intestinal barrier function
- 16:30 – 16:50 **Fábia Lobo de Sá:** Intestinal barrier protection in *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 (*Chair*: Laura-Sophie Beier)
- 09:40 – 10:30 Election of the Steering Committee
- 10:30 – 11:00 **Coffee break**
- Chair*: Jörg Piontek
- 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 in Meitner Saal)
- 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**

Dean



Axel Pries

Coordinators



Jörg Schulzke



Dorothee Günzel



Rita Rosenthal

Invited speakers



Mikio Furuse



Markus Bleich



Maria Balda



Daniel Unsöld

A1



Dorothee Günzel



Roman Mannweiler

A2



Jörg Piontek



Gerd Krause



Laura-Sophie Beier

A3



Michael Fromm



Jörg Schulzke



Carlos Ayala-Torres

A4



Martin Lehmann



Volker Haucke



Hannes Gonschior

B1



Thomas Willnow



Annabel Christ



Annette Hammes



Izabela Kowalczyk

B2



Michael Hummel



Britta Siegmund



Danielle Cardoso da Silva

B3



Dominik Müller



Murat Seker



Lorena Suarez Artiles

B4



Kai Schmidt-Ott



Janna Leiz



Alexander Holler



Yesim Yurtdas

C1



Jörg Schulzke



Hanno Troeger



Praveen Natramilarasu

C2



Susanne Krug



Michael Fromm



Jiachen Hu

C3



Michael Schumann



Britta Siegmund



Deborah Delbue da Silva

C4



Hans-Jörg Epple



Thomas Schneider



Carolin Grünhagen

PAC-CAMPY



Roland Bucker



Jörg Schulzke



Fábía Lobo de Sá