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

Program of the <u>Summer School</u>, September 20-21, 2019



September 20, 2019

September 20,	2013
09:00 - 09:10	Welcome by Prof. Jörg Schulzke , Coordinator of the GRK 2318
Chair:	Izabela Kowalczyk, Carlos Ayala Torres
09:10 – 10:10	1st Plenary lecture by Prof. Lorenza González-Mariscal, Mexico City, Mexico
	Beyond ZO-2 canonical function
10:10 – 10:40	Roman Mannweiler: Impedance spectroscopy indicates multiple barriers in stratified epithelia
10:40 – 11:00	Coffee break
Chair:	Hannes Gonschior, Roman Mannweiler
11:00 – 12:00	Lecture 1 by Gerd Krause: Structure-function relationships of tight junction protein interactions
12:00 – 12:30	Laura-Sophie Beier: Targeting of claudins by CPE-based modular biologicals
12:30 – 13:00	Caroline Hempel: Determinants for claudin-3 and -10b polymerization revealed by mutagenesis and cellular analysis
13:00 – 14:00	Lunch break
Chair:	Caroline Hempel, Janna Leiz
14:00 – 14:30	Izabela Kowalczyk: Integrity of the stem cell niche in the developing brain-
	mechanisms shaping the neural tube
14:30 – 15:00	Hannes Gonschior: Nanoscale segregation of Claudin regulates paracellular ion flux over tight junction
15:00 – 15:20	Marjann Schäfer: Functional characterization of the ALOX15 orthologs in the tree shrew
15:20 – 15:40	Florian Reisch: Evolution of Alox15 orthologs in marine mammals
15:40 – 15:50	Lucas Heils: Clostridium difficile Toxin effects on intestinal barrier function
15:50 – 16:30	Coffee break
Chair:	Deborah Delbue, Carolin Grünhagen
16:30 – 17:00	Praveen Nattramilarasu: Campylobacter concisus impairs epithelial barrier function and
	electrogenic sodium transport in the colonic HT-29/B6-GR/MR cell model
17:00 – 17:30	Fábia Lobo de Sá: Curcumin mitigates immune-induced epithelial barrier dysfunction by
	Campylobacter jejuni
17:30 – 18:00	Jiachen Hu: Role of the tricellular tight junction in inflammatory bowel diseases
18:00 – 18:30	Carlos Ayala Torres: Contribution of the tricellular tight junction to paracellular
	water permeability
19:00 – 22:00	Poster, beer and wine

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

Program of the <u>Summer School</u>, September 20-21, 2019



September 21, 2019

Chair:	Murat Seker, Jiachen Hu
09:00 - 10:00	2 nd Plenary lecture by Prof. Michael Koval, Atlanta, USA: Spikes and waves: How tight
	junction morphology provides clues to the control of barrier function
10:00 - 10:30	Deborah Delbue: Effect of monocytes derived from celiac disease patients on the
	intestinal barrier function
10:30 - 11:00	Danielle Cardoso-Silva: Tracking a primary barrier defect in celiac disease
11:00 – 11:10	Daphni Siampli: Live Cell Imaging of the Par3-mediated epithelial polarity under
	inflammation
11:10 – 11:30	Coffee break
Chair:	Laura Beier, Danielle Cardoso-Silva
11:30 – 12:00	Carolin Grünhagen: Macromolecule uptake across intestinal epithelia in HIV infection
12:00 – 12:30	Murat Seker: The role of Cnnm2 in the regulation of transepithelial magnesium transport
12:30 – 13:00	Janna Leiz: Novel transcriptional regulators of tight junction biogenesis in renal collecting
	ducts
13:00 – 14:30	Lunch break (13:40 – 14:30 Meeting of the Steering Committee)
Chair:	Fábia Lobo de Sá, Praveen Nattramilarasu
14:30 – 14:45	Eduard Butkevych: Epithelial apoptosis and tight junction changes during Campylobacter
	jejuni infection
14:45 –15:00	Hannah Lutz: Effects of HIV-associated inflammatory cytokines on macromolecule
	translocation across the gut mucosa
15:00 –15:15	Karem Awad: Epithelial barrier function in diarrheal and mixed type of irritable bowel
	syndrome
15:15 – 16:15	Lecture 2 by Annette Hammes-Lewin: Identification of a new disease relevant sonic
	hedgehog pathway modifier gene
16:15 – 17:00	Coffee break
17:00 -18:30	Jens P. Fürste, Campus Tour
19.00 -	Dinner in Ristorante Piaggio, Königin-Luise Str. 44, 14195 Berlin