

Transporttage 2018

7.-9. September

Greifswald







# Greifswalder Transporttage 2018

## (final program)

**Friday, September 7<sup>th</sup>**

Time:	Title of the talk:	Presented by:
16:00-16:30	Registration	
16:30-17:00	Welcome	Giuliano Ciarimboli and Mladen Tzvetkov
17:00-17:45	Mechanistic models for coproporphyrin I and creatinine as endogenous biomarkers for transporter drug-drug interactions	Aleksandra Galetin (Manchester, UK)
17:45-19:00	<b>Membrane transporters as determinants of drug pharmacokinetics (chairs: Aleksandra Galetin, Mladen Tzvetkov)</b>	
17:45-18:00	Lack of mutual pharmacokinetic DDIs for a novel transporter phenotyping cocktail	Chih-Hsuan Hsin (Köln)
18:00-18:15	How does the antimalarial drug proguanil enter erythrocytes?	Anna Bauer (Greifswald)
18:15-18:45	Salivary tracers to characterize the impact of GI physiology on drug absorption: Validation studies with MRI	Maximilian Sager (Greifswald)
18:45-open end	<b>BBQ evening at the institute site (sponsored by PortaCellTec)</b>	

**Saturday, September 8<sup>th</sup>**

Time:	Title of the talk:	Presented by:
08:00-09:00	<b>Membrane transporters as determinants of drug pharmacokinetics (part 2) (chairs: Cesare Indiveri, Ellen Closs)</b>	
08:00-08:15	Protein abundance of clinically relevant drug transporters in paired human liver and intestine tissue specimens	Marek Drozdziak (Szczecin, Poland)
08:15-08:30	Interindividual variability of membrane transporter protein expression in the liver	Anne Nies (Stuttgart)
08:30-08:45	Comparative studies on the expression and function of pharmacokinetically relevant factors in different cell types of the liver	Christy Joseph (Greifswald)
08:45-09:00	Role of transporters for organic cations on the <i>in vitro</i> uptake and <i>in vivo</i> pharmacokinetics of gabapentin and cetirizine	Ana Carolina Conchon Costa (Münster)
09:00-09:10	<b>Short break</b>	

09:10-10:00	<b>Membrane transporters, drug toxicity, and toxicology (chairs: Giuliano Ciarimboli, Stefan Oswald)</b>	
09:10-09:30	Role of transporters in platinum-induced ototoxicity	Oliver Zolk (Ulm)
09:30-09:45	Role of organic cation transporters in chronic toxicities of cisplatin	Vivien Barz (Münster)
09:45-10:00	Functional comparison of hNTCP and mNtcp in transport characteristics and the inhibition potency of selected drugs and pesticides	Saskia Floerl (Göttingen)
10:00-10:30	<b>Coffee break</b>	
10:35-11:55	<b>Structure-function relationships of membrane transporters (chairs: Jörg König, Mladen Tzvetkov)</b>	
10:35-11:20	Rat organic cation transporter 1 contains three substrate binding sites per monomer	Hermann Koepsell (Würzburg)
11:20-11:35	OCT1 of mice and men - the different role of phenylalanine <sub>159</sub>	Marleen Meyer (Greifswald)
11:35-11:50	The human SLC1A5 amino acid transporter: structure/function relationships and regulatory aspects	Mariafrancesca Scalise (Arcavacata di Rende, Italy)
11:50-12:55	<b>Lunch</b>	
13:00-14:15	<b>Regulation, folding, and subcellular localization of membrane transporters and channels (chairs: Anne Nies, Markus Grube )</b>	
13:00-13:15	Transcriptional regulation of the MRP4 (ABCC4) transporter	Gabriele Jedlitschky (Greifswald)
13:15-13:30	Is epithelial cell polarity required for solute carrier expression and localization?	Carmen Berghaus (Münster)
13:30-13:45	Relevance of C-proximal amino acids for the localization of OATP2B1	Markus Grube (Greifswald)
13:45-14:00	miR-206 modulates the hepatic expression of the organic anion transporting polypeptide 1B1 (OATP1B1, SLCO1B1)	Michele Visentin (Zürich, Switzerland)
14:00-14:15	Alternative delta19 exon skipping leads to non-functional mdr1 P-glycoprotein expression in dogs	Joachim Geyer (Giessen)
14:15-14:45	<b>Coffee break</b>	

14:45-16:15 <b>Physiological and pathophysiological role of membrane transporters and channels (chairs: Joachim Geyer, Gabriele Jedlitschky)</b>		
14:45-15:15	Arginine transporter hCAT-1: A novel target for cancer therapy?	Ellen Closs (Mainz)
15:15-15:30	Inhibition of hCAT-1-mediated arginine transport: A novel approach for chronic lymphocytic leukemia (CLL) therapy?	Anke Werner (Mainz)
15:30-15:45	Involvement of the CFTR-regulatory ion channel Slc26a9 in pancreatic exocrine and endocrine function	Ursula Seidler (Hannover)
15:45-16:00	Activation of glycoprotein IIb/IIIa is reduced by specific inhibition of MRP4/ABCC4 in human platelets	Robert Wolf (Greifswald)
16:00-16:15	Role of OCT3/CD63-Interaction for histamine secretion by basophils	Sophie Götz (Münster)
16:15-16:30	OCT1 as efflux transporter of acylcarnitines: Is all that glitters gold?	Ole Jensen (Göttingen)
16:30-17:10	Ask the experts	
18:00-open end	Social evening	

### Sunday, September 9<sup>th</sup>

Time:	Title of the talk:	Presented by:
08:00-08:45	Structural basis for functional cooperativity in dimeric SLC26 transporters	Eric Geertsma (Frankfurt)
08:45-09:30	<b>Intestinal transporters and channels (chairs: Georg Lamprecht, Ursula Seidler)</b>	
08:45-09:00	GLP-2 support promotes the tight junction gate function in the short bowel jejunum in mice	Johannes Reiner (Rostock)
09:00-09:15	Functional characterization of sodium hydrogen exchangers NHE2 and NHE8 in the differentiated intestinal epithelial cell line Caco-2Bbe	Zhou Kunyan (Hannover)
09:15-09:30	Expression and regulation of metabolizing enzymes and transporter proteins in intestinal cell lines	Anja Fritz (Greifswald)
09:30-09:45	Concluding remarks and farewell	Giuliano Ciarimboli and Mladen Tzvetkov

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