

Greifswalder Transporttage 2019

(preliminary program)

Thursday September 5th

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	<u>Keynote:</u> Transport: A look back	Gerhard Burckhardt (Göttingen)
17:50-18:45	Physiological and pathophysiological role of membrane transporters (chairs: Cesare Indiveri and Gabriele Jedlitschky)	
17:50-18:10	SLC10A5: a new bile acid transporter?	Joachim Geyer (Gießen)
18:10-18:25	NTCP - bile acid transporter and viral receptor in apes and monkeys	Simon Müller (Gießen)
18:25-18:45	The OCTN2/L-carnitin system in glioblastoma multiforme: cell protection and prognostic value	Heiko Paland (Greifswald)
18:45-19:00	Journal presentation: Amino Acids	Editor-in-Chief: Ellen Closs (Mainz)
19:00-open end	BBQ evening at the institute site (celebrating 10 years of PortaCellTec)	

Friday September 6th

Time:	Title of the talk:	Presented by:
08:00-09:00	Physiological role and regulation of membrane transporters (chairs: Giulino Ciarimboli and Ellen Closs)	
08:00-08:15	The role of SLC10A7 for calcium influx regulation	Emre Karakus (Gießen)
08:15-08:30	Functional consequences of the interaction of human organic cation transporter 3 with the dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A (DYRK1A)	Mira Stapel (Münster)
08:30-08:45	Human cationic amino acid transporters are not affected by direct nitros(yl)action	Anastasia Hobbach (Mainz)
08:45-09:00	Potential dual protective role of OATP4C1 in the kidney: mediating the first step of the elimination of the uremic toxin ADMA and efflux of cardioprotective L-homoarginine into the systemic circulation	Jörg König (Erlangen)
9:00-9:30	Coffee break	

9:30-10:15	Keynote: Pharmacogenetics of drug transporters: OATP1B1, BCRP, common and rare variants	Mikko Niemi (Helsinki, Finland)
10:15-11:25	Pharmacogenetics of drug transporters (chairs: Jürgen Brockmöller and Mikko Niemi)	
10:15-10:35	Identification and functional characterization of novel genetic variants of the human multidrug resistance protein 2 (MRP2/ABCC2)	Charlotte Koelz (Stuttgart)
10:35-10:50	Functional characterisation of splice variant rs35854239 in the OCT1 gene	Sarah Römer (Greifswald)
10:50-11:05	Associations of OCTN1/2 polymorphisms with adiposity, lipid parameters, and tooth loss	Gabriele Jedlitschky (Greifswald)
11:05-11:25	Guidelines as implementation science: Current guideline recommendations for the use of markers in transporter genes to individualize drug treatment	Oliver Zolk (Ulm)
11:25-11:35	short break	
11:35-12:50	Structure-function relationship and factors affecting membrane transporters (chairs: Jörg König and Mladen Tzvetkov)	
11:35-11:50	Data mining and comparative modeling of hepatic OATPs reveals insights into ligand-protein interactions and selectivity	Barbara Zdrazil (Wien, Austria)
11:50-12:05	Opioids as substrates and inhibitors of OCT1: polyspecific does not mean unspecific	Marleen Meyer (Greifswald)
12:05-12:20	Stereoselective cell uptake of adrenergic agonists and antagonists by organic cation transporters	Jürgen Brockmöller (Göttingen)
12:20-12:35	Plasma membrane cholesterol regulates the allosteric binding to the organic cation transporter 2 (OCT2, SLC22A2)	Michele Visentin (Zürich, Switzerland)
12:35-12:50	Cholesterol interaction with the human ASCT2: insights into structure/function relationships	Mariafrancesca Scalise (Arcavacata di Rendi, Italy)
12:50-13:50	Lunch	

13:50-15:00	Pharmacokinetics I: Drug transporters in pharmacokinetics, drug safety and toxicology (chair: Stefan Oswald)	
13:50-14:15	OCT1: an intestinal or solely hepatic transporter?	Stefan Oswald (Greifswald)
14:15-14:30	Role of Transporters for Organic Cations in the Development of Toxic Effects Associated with Platinum Agents	Sara Eltayeb (Münster)
14:30-14:45	Micro-physiological systems and drug transport activity: filling a gap in the drug development process	Pedro Pinto (Cambridge, UK)
14:45-15:00	Interaction of pesticides and drugs with human vs. mouse organic anion transporter OAT1	Yohannes Hagos (Göttingen)
15:00-15:30	Coffee break	

15:30-16:55 Pharmacokinetics II: Novel inhibitors and substrates and novel clinically relevant drug transporters (chairs: Joachim Geyer and Markus Grube)		
15:30-15:55	Organic cation transport by OATP1A2: Examples from bronchodilative drugs	Markus Grube (Greifswald)
15:55-16:10	OATP1A2 and OATP2B1 are interacting with dopamine receptor agonists and antagonists	Anima Schäfer (Basel, Switzerland)
16:10-16:25	LST-3TM12 a new member of the OATP1B-family of uptake transporters	Janine Hussner (Basel, Switzerland)
16:25-16:40	Opioid hydromorphone interacting with the Organic Anion Transporter 1A2 and the genetic variants OATP1A2*2 and OATP1A2*3	Nina Nickol (Greifswald)
16:40-16:55	Interaction of the tyrosine kinase inhibitors tofacitinib and baricitinib with transporters for organic cations	Jan Amrhein (Münster)
16:55-17:10	Ask the experts	
18:00-open end	Social evening: Cruise on the Greifswalder Bodden (with dinner)	

Saturday September 7th

Time:	Title of the talk:	Presented by:
08:00-09:25 Intestinal transporters and channels (chairs: Ursula Seidler and Hermann Koepsell)		
08:00-08:15	Variability of gastric emptying and its role for oral biopharmacy	Philipp Schick (Greifswald)
08:15-08:30	Role of Slc26a3 in the development of inflammation and 'dysbiosis'	Archana Kini (Hannover)
08:30-08:45	Linaclotide increases the intestinal lumen fluidity in CF mouse model via GCC-cGMP-PKA pathway	Qinghai Tan (Hannover)
08:45-09:00	Pharmacologic stimulation of adaptive transport and barrier function in the short bowel syndrome of mice	Johannes Reiner (Rostock)
09:00-09:25	Antidiabetic effects of a tripeptide that decreases abundance of Na ⁺ -D-glucose cotransporter SGLT1 in the brush-border membrane of small intestine	Hermann Koepsell (Würzburg)
09:25-09:45	Concluding remarks and farewell	Giuliano Ciarimboli and Mladen Tzvetkov

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