

# Greifswalder Transporttage 2022 (final program)

**Thursday, September 1<sup>st</sup>**

Time:	Title of the talk:	Presented by:
16:00-16:30	Registration	
16:30-17:00	Welcome	Giuliano Ciarimboli, Stefan Oswald, Mladen Tzvetkov
17:00-17:45	<u>Keynote:</u> Altered Hepatic Transporters in Nonalcoholic Fatty Liver Disease: PBPK Modeling and Implications for Precision Dosing	Kim Brouwer (Chapel Hill, USA)
17:50-18:55	<b>Transporters in health and disease (chairs: Cesare Indiveri, Stefan Oswald)</b>	
17:50-18:10	Effects of OCT1 deficiency on liver fat in humans: evidences from the SHIP study	Mladen Tzvetkov / Anna Böhme (Greifswald)
18:10-18:25	Importance of hOCT3 in allergic reactions	Moritz Pernecker (Münster)
18:25-18:55	SLC transporter as targets for the treatment of metabolic disease	Jörg König (Erlangen)

**Friday, September 2<sup>nd</sup>**

Time:	Title of the talk:	Presented by:
08:30-09:30	<b>Importance of transporters for pharmacokinetics (chairs: Jürgen Brockmöller, Marleen Meyer-Tönnies)</b>	
08:30-08:45	Effect of aging and sex-differences on the pharmacokinetics of metformin, penicillin, sumatriptan, and metoprolol in rats	Marleen Meyer-Tönnies (Greifswald)
08:45-09:00	Overlap of OCT1 and CYP2D6 substrates and combined effects on cellular disposition of drugs and other substances	Lukas Gebauer (Göttingen)
09:00-09:15	Atypical substrates of OCT1	Kyra-Elisa Redeker (Göttingen)
09:15-09:30	Establishment and characterization of novel human intestinal in vitro models for absorption and first-pass metabolism studies	Randy Przybylla (Rostock)
09:30-10:00	<b>Coffee break</b>	

**Friday, September 2<sup>nd</sup> (continued)**

Time:	Title of the talk:	Presented by:
10:00-10:45	<u>Keynote</u> : Intestinal peptide and drug uptake – a structure perspective	Christian Löw (EMBL, Hamburg)
<b>10:50-11:50</b> <b>Structural aspects of transporters</b> <b>(chairs: Mladen Tzvetkov, Yohannes Hagos)</b>		
10:50-11:10	The role of sodium in the function of the amino acid transporter ASCT2	Maria Francesca Scalise (Arcavacata di Rende, Italy)
11:10-11:30	PANABC: Polypharmacology- and Pattern-based Exploration of Under-studied ABC Transporters	Sven Marcel Stefan (Oslo, Norway)
11:30-11:50	Apparently independent transport of adenosine and thymidine by the single nucleoside transporter of the free-living protist Bodo saltans, ancestor of Trypanosoma and Leishmania spp.	Harry De Koning (Glasgow, Scotland)
11:50-12:35	<u>Keynote (late-breaking)</u> : On the structural basis of organic cation transporter-3 inhibition	Harald Sitte (Vienna, Austria)
12:40-14:10	<b>Lunch</b>	

14:15-15:00	<u>Keynote</u> : Quantitative Translation of Microfluidic Transporter in Vitro Data to in Vivo Reveals Impaired Albumin-Facilitated Indoxyl Sulfate Secretion in Chronic Kidney Disease	Thom v. d. Made (Utrecht, The Netherlands)
<b>15:00-16:00</b> <b>Renal transporters and channels</b> <b>(chairs: Giuliano Ciarimboli, Marek Drozdziak)</b>		
15:00-15:20	TRPC6 and renal fibrosis	Dmitry Tsvetkov (Greifswald)
15:20-15:40	Drug transporters in kidney transplantation	Marek Drozdziak (Szczecin, Poland)
15:40-16:00	Beyond small molecules: renal transport of antisense-oligonucleotides	Pedro Pinto (Greifswald)
16:00-16:40	<b>Coffee break</b>	

<b>16:40-18:10</b> <b>Pathophysiological and pharmacological roles of transporters</b> <b>(chairs: Jörg König, Stefan Engeli)</b>		
16:40-17:05	The Mystery of the Human Proton-Organic Cation Antiporter: one transport protein or many?	Jürgen Brockmöller (Göttingen)
17:05-17:20	Transmembrane Transporters in Myocytes: Importance in Statin-induced Myopathy	Annika Hafkemeyer (Greifswald)
17:20-17:35	Disrupted trans-placental thyroid hormone transport in a human model for MCT8 deficiency	Zhongli Chen (Rotterdam, The Netherlands)
17:35-17:50	Comparison of non-parenchymal cell and hepatocyte transporter expression in the mouse liver	Vincent Rönnpagel (Greifswald)
17:50-18:10	Ligand-induced thermal stability - a substrate-independent approach to screen for OCT2-drug interactions	Max Maane (Zürich, Switzerland)
18:20 - open end	<b>Social evening: BBQ at the site of the institute</b>	

## Saturday, September 3<sup>rd</sup>

Time:	Title of the talk:	Presented by:
<b>08:30-10:10</b> <b>Regulation of transporters - part 1</b> <b>(chairs: Dmitry Tsvetkov, Markus Grube)</b>		
08:30-09:00	Regulation of (intestinal) drug transporters	Stefan Oswald (Rostock)
09:00-09:15	Altered glycosylation caused by extracellular tag insertion affects SLC26A3 function	Sophie Achilles (Rostock)
09:15-09:40	Differential nutrient transporters in TM4SF5-enriched microdomains for metabolic regulations	Jung Weon Lee (Seoul, Republic of Korea)
09:40-09:55	The human Concentrative NucleosideTransporter 3 (hCNT3) interactome suggests a regulatory link between nucleoside salvage and nucleotide biosynthesis	Liska Caviedes Cárdenas (Barcelona, Spain)
09:55-10:10	Unveiling genetic and epigenetic regulatory mechanisms of the pyrimidine nucleoside transporter hCNT1.	Aida Mata-Ventosa (Barcelona, Spain)
10:10-10:30	<b>Coffee break</b>	

<b>10:30-11:40</b> <b>Regulation of transporters - part 2</b> <b>(chairs: Anne Nies, Gabi Jedlitschky)</b>		
10:30-10:50	Hepatic expression of the Na <sup>+</sup> -taurocholate cotransporting polypeptide is independent from genetic variation	Anne Nies (Stuttgart)
10:50-11:05	Regulation of hOCT3 by DYRK1A	Johanna Hoffmann (Münster)
11:05-11:20	The HeLa cells as a model system for the study of hOCT3 function	Francesca De Luca (Münster)
11:20-11:40	Concluding remarks and farewell	Giuliano Ciarimboli, Stefan Oswald and Mladen Tsvetkov
11:40-12:30	<b>Lunch</b>	

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