

## Greifswalder Transporttage 2023 (final program)

**Thursday, August 31<sup>st</sup>**

Time:	Title of the talk:	Presented by:
16:00-16:30	Registration	
16:30-17:00	Welcome	Giuliano Ciarimboli, Stefan Oswald, Georg Lamprecht, Mladen Tzvetkov
17:00-17:45	<b>Keynote:</b> Extracellular Vesicle (EV)-Based Liquid Biopsy in DMPK: Where Are We Now and Where Are We Going?	David Rodrigues (Pfizer, Connecticut, USA)
17:50-19:20	<b>Transporters from tumor therapy, through fatty liver, up to anti-infective therapy (Chairs: Giuliano Ciarimboli, Marcal Pastor-Anglada)</b>	
17:50-18:10	Interactions of oxaliplatin and dasatinib with hOCT2	Giuliano Ciarimboli (Münster)
18:10-18:30	OCTN2 as a potential target for glioblastoma therapy - from bedside to bench and back again	Sandra Bien-Möller (Greifswald)
18:30-18:45	Interaction between oximes and organic cation transporters	Josip Madunić (Greifswald / Zagreb)
18:45-19:05	Role of equilibrative nucleoside transporter 1 (ENT1) in metabolic associated fatty liver disease (MAFLD)	Marcal Pastor-Anglada (Barcelona, Spain)
19:05-19:20	Targeting 7-deazaadenosine analogs through ENT-family nucleoside transporters of multiple protozoan pathogens	Harry De Koning (Glasgow, Scotland)

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

Time:	Title of the talk:	Presented by:
08:30-09:35	<b>Transporters in pharmacogenetics and pharmacokinetics (Chairs: Jürgen Brockmüller, Stefan Engeli)</b>	
08:30-08:50	Clinical impact of OCT1 polymorphisms: What do we know, and what can we expect in future?	Jürgen Brockmüller (Göttingen)
08:50-09:05	Impact of OCT1- and CYP2D6 genotype on pharmacokinetics of berberine	Jonas Blöcher (Greifswald)
09:05-09:20	Pharmakokinetic profiling of Slco2b1 modified rats using erlotinib as a substrate	Marta Anna Rysz (Basel)
09:20-09:35	Influence of organic cation transporters on the pharmacokinetics and pharmacodynamics of inhalational drugs: an in vitro, in vivo, in silico study on drug-drug interactions and pharmacogenetic effects	Christof Dücker (Göttingen)
09:35-10:05	<b>Coffee break</b>	

**Friday, September 1<sup>st</sup> (continued)**

Time:	Title of the talk:	Presented by:
10:05-11:20	<b>Methods to study membrane transporters (Chairs: Stefan Oswald, Peggy Berlin)</b>	
10:05-10:50	<u>Keynote:</u> Methods to study assembly and dynamics of membrane protein complexes	Ilka Wittig (Frankfurt)
10:50-11:05	Generation of an ABCB1/ABCG2 knockout platform by CRISPR/Cas9	Anne Kasten (Kiel)
11:05-11:20	Liver perfusion model for analyses of OCT1 effects in mice	Vincent Rönnpögel (Greifswald)

11:25-12:30	<b>Structure-function relationships of membrane transporters (Chair: Michele Visentin, Mladen Tzvetkov)</b>	
11:25-11:40	The Effect of 7-ketocholesterol on the function of organic cation transporter 2 (OCT2)	Fangrui Xiu (Jinan, China)
11:40-11:55	Applying recently published cryo-EM structures to learn more about OCT1 polyspecificity	Sarah Römer (Greifswald)
11:55-12:15	The ATP dependent copper-histidinate transport mediated by LAT1: switch from antiport to uniport mechanism	Maria Francesca Scalise (Arcavacata di Rende, Italy)
12:15-12:30	Modulation of transport activity and thermal stability of LAT1 by membrane sterol content	Raffaella Scanga (Arcavacata di Rende, Italy)
12:30-14:30	<b>Lunch</b>	

14:30-15:30	<b>Ion channels (Chairs: Cesare Indiveri)</b>	
14:30-14:45	Novel Kv7 ion channel openers and regulation of vascular tone	Mohamed Ali (Greifswald)
14:45-15:00	Perfusion pressure measurements using Kwu176 and Kwu183 as novel potent Kv7 channel openers	Zhugang Chu (Greifswald)
15:00-15:15	Single-cell multi-omic joint analysis reveals nephroprotective mechanism of TRPC6 inhibition	Yao Xu (Greifswald)
15:15-15:30	An inactivating human TRPC6 channel mutation without focal segmental glomerulosclerosis	Mario Kassmann (Greifswald)
15:30-16:00	<b>Coffee break</b>	

16:00-17:45	<b>Intestinal transporters (Chairs: Georg Lamprecht, Marek Drozdziak)</b>	
16:00-16:45	<u>Keynote:</u> Intestinal NHE3, what have we missed?	Timo Rieg (USA)
16:45-17:00	Effects of deglycosylation on SLC26A3	Fabiane-Samira Baumann (Rostock)
17:00-17:15	SCFA producer <i>E.coli</i> Nissle improved gut barrier parameters in the cecum of <i>slc26a3</i> <sup>-/-</sup> mice	Zhenghao Ye (Hannover)
17:15-17:30	Extracellular tagging of SLC26A3 - lessons learned	Sophie Achilles (Rostock)
18:00 - open end	<b>Social evening: BBQ at the site of the institute</b>	

## Saturday, September 2<sup>nd</sup>

Time:	Title of the talk:	Presented by:
08:30-9:45	<b>Physiological and pathophysiological role of membrane transporters</b> <b>(Chairs: Maria Francesca Scalise, Ivana Vrhovac Madunic)</b>	
08:30-08:45	Characterization of proteins mediating the transport of the uremic toxin SDMA	Lorenz Scherpinski (Erlangen)
08:45-09:00	Coproporphyrin handling in red blood cells	Karin Brecht (Basel, Switzerland)
09:00-09:15	Isobutyryl-carnitine as a biomarker of OCT1 activity: transport substrate or product of a metabolism shift?	Anna Böhme (Greifswald)
09:15-09:30	CRISPR/Cas9-mediated correction of mutated copper-transporting P-type ATPase	Vanessa Sandfort (Münster)
09:30-09:45	The regulation of hOCT3 by DYRK1A	Johanna Hoffmann (Münster)
09:45-10:25	Coffee break	

10:25-11:15	<b>Role of Transporters in Pharmacology</b> <b>(Chair: Jörg König, Gabriele Jedlitschky)</b>	
10:25-10:45	Solute carrier (SLC) and ATP-binding cassette (ABC) transporters in adipose tissue	Marek Drozdik (Szczecin, Poland)
10:45-11:00	Inhibitors of SLC10 carriers from the benzothiazepine class	Marie Wannowius (Gießen)
11:00-11:15	Molecular-structural basis of polypharmacology - what makes a multitarget agent a multitarget agent	Sven Marcel Stefan (Lübeck)
11:15-11:25	Concluding remarks and farewell	Giuliano Ciarimboli, Stefan Oswald, Georg Lamprecht, and Mladen Tzvetkov

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## Transporttage 2023

