

Greifswalder Transporttage 2025

(preliminary program)

Thursday, September 11th

Time:	Title of the talk:	Presented by:
15:00-17:00	Registration	
17:00-17:05	Welcome	Giuliano Ciarimboli, Stefan Oswald, Marleen Meyer-Tönnies, Mladen Tzvetkov
17:05-17:45	<u>Keynote</u> : Of Mice and Men - Imaging Cystic Fibrosis Lung Disease	Mark Wielpütz (Greifswald)
Membrane transporters as drug targets		
	NTCP bile acid transporter inhibitors: ligand-based and structure-based drug design	Joachim Geyer (Giessen)
	Natural product discovery pipeline to identify antidotes against amatoxin toxicity: Targeting OATP1B3 uptake	Tzu-Ya Hung (Basel, Switzerland)
	Clinically used ASBT inhibitors: mode of inhibition and drug binding sites	Veronica Billo (Giessen)
	Company presentation	

Friday, September 12th

Time:	Title of the talk:	Presented by:
Membrane transporters in pharmacology & toxicology		
	Polypharmacology Translates between species and phylogenetic Distance: a study on organic anion transporting polypeptides	Sven Marcel Stefan (Lübeck)
	The involvement of miRNAs in ABC and SLC drug transporters regulation in the human liver	Marek Drozdziak (Szczecin, Poland)
	The mystery of the bile acid transporter homologue SLC10A5	Emre Karakus (Giessen)
	Membrane transport of hepatotoxic phytochemicals and synthetic drugs	Wouroud Ismail Al-Khalil (Göttingen)
	Biomarkers for assessment of drug transporter function	Jörg König (Erlangen)
short break		

Friday, September 12th (continued)

Time:	Title of the talk:	Presented by:
Physiological and pathophysiological role of membrane transporters I		
	<u>Keynote:</u> Allosteric Modulation of Neurotransmitter Transporters: A Structural and Functional Perspective	Harald Sitte Vienna, Austria
	OCT3 as a histamine transporter in granulocytes	Giuliano Ciarimboli (Münster)
	The role of organic cation transporter 1 in determining serotonin levels in peripheral circulation	Felix Morof (Greifswald)
	Dose-dependent kinetics of thiamine in healthy volunteers with and without functional hepatic OCT1 transporter	Jasmin Schirmer (Greifswald)
Break		

Physiological and pathophysiological role of membrane transporters II		
	Organic solute transporter OSTa/b: Is this SLC transporter (SLC51) actually an uptake transporter or is it more of an efflux transporter?	Yohannes Hagos (Göttingen)
	Interindividual variability in drug transporter expression beyond genetic aspects	Stefan Oswald (Rostock)
	Not all GAT1 mutations are pathogenic in the same way; biophysical characterization of GAT1 in SLC6A1-Neurodevelopmental disorders	Tiziana Romanazzi (Varese, Italy)
	Localization of Organic Cation and Anion Transporters in the Human Central and Peripheral Nervous System	Aleksandra Sachkova (Göttingen)
Lunch		

Structure-function relationships I		
	What comes after a cryo-EM structure?	Mladen Tzvetkov (Greifswald)
	Functional contribution of W354 to the transport mechanism of OCT1	Sarah Römer (Greifswald)
	Substrates of SLC transporter provide the energy for triggering ist own transport	Thomas Stockner (Vienna, Austria)
	Insights into the molecular bases of substrate recognition and polyspecificity of OCTN1	Cesare Indiveri (Rende, Italy)
Coffee break		

Structure-function relationships II		
	OCT3: what can we learn form our mistakes?	Marleen Meyer-Tönnies (Greifswald)
	Lysine 204 and Phenylalanine 400 are crucial residues for the antiport function of the human LAT1 transporter	Maria Francesca Scalise (Rende, Italy)
	The peculiar Betaine and GABA relationship as substrate of GAT1	Elena Bossi (Varese, Italy)

Progress in transport research by new technologies		
	Comprehensive substrate spectra of organic cation transporters (OCT) and reliability of machine-learning prediction of OCT substrates	Jürgen Brockmöller (Göttingen)
	Decoding the Aging Heart: Mechanisms and Consequences of Age-Related Cardiac Dysfunction - a Spatial Transcriptomic Approach	Niklas Hillig (Greifswald)
	Human kidney organoids for transport reasearch	Gabriel Estrela (Münster)
Social evening: BBQ at the site of the institute		

Saturday, September 13th

Time:	Title of the talk:	Presented by:
Ion Channels		
	TRPC6 Blockade Ameliorates Fibrotic Remodeling in Chronic Disease	Dmitry Tsvetkov (Greifswald)
	Endothelial Cell Regulation of Inflammation: Nephroprotective Mechanisms of TRPC6 Inhibition	Qidi Zhai (Greifswald)
	Is TRPM5 an essential element for the pharmacological potential of Best-in-Class antidiabetic mediactions?	Pascale Schreier (Munich)
	Electrophysiological Properties of KCNQ Channels: Focus on Subunit interactions and Novel Drugs	Juntao Lin (Greifswald)
	High-Resolution Pressure Myography Mechanisms and Spatiotemporal Patterns of Contraction in the Renal Pelvis and Ureter	Mario Kassmann (Greifswald)
10:15-10:30	Concluding remarks	Mladen Tzvetkov
Coffee break with coffee to go		

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