

BBB 2023
22. Barrier- and Transporter - Days
Bad Herrenalb, May 15. - 17., 2023

Monday, May 15. 2023

18.⁰⁰ p.m. Dinner

19.⁰⁰-19.²⁰ p.m. Simon Drescher, Heidelberg, Germany
The Phospholipid Research Center – An Introduction

19.²⁰-19.⁴⁰ p.m. Winfried Neuhaus, Vienna, Austria
Nanoplastic effects on cells of the neurovascular unit

Subsequent get-together in the lounge and the garden of the Seminar Center

Tuesday, May 16., 2023

8.⁰⁰-8.⁴⁵ a.m. Breakfast

9.⁰⁰- 9.²⁰ a.m. Elena Puris, Heidelberg, Germany
Altered protein expression of ABC and SLC transporters in familial Alzheimer's disease animal models

9.²⁰-9.⁴⁰ a.m. Mikko Gynther, Heidelberg, Germany
Combating transporter-mediated anticancer drug resistance: new strategy against an old foe

9.⁴⁰-10.⁰⁰ a.m. Yohannes Hagos, Göttingen, Germany
Species- and Substrate-dependent Inhibition of the renal Uptake Transporters OAT1 and OCT2 by Drugs and Pesticides

10.⁰⁰-10.³⁰ a.m. Coffee Break / Posters

10.³⁰-10.⁵⁰ a.m. Till Luckenbach, Leipzig, Germany
ABC of cellular transporters in zebrafish embryos – relevance for toxicokinetics

10.⁵⁰-11.¹⁰ a.m. Lisa Gözl, Heidelberg, Germany
Potential endpoints to identify thyroid hormone system disruption in zebrafish embryos

11.¹⁰-11.³⁰ a.m. Ramya Puligilla, Basel, Switzerland
Zebrafish larvae as an *in vivo* model to assess solvent-induced neurotoxicity.

11.³⁰-11.⁵⁰ a.m. Jeroen Bussmann, Leiden, NL
Elucidating Lipid nanoparticle behavior using zebrafish

12.⁰⁰-13.³⁰ p.m. Lunch

13.³⁰-13.⁵⁰ p.m. Kai-Uwe-Goss, Leipzig, Germany
New insights into the intrinsic permeability of organic chemicals through biological membranes I

13.⁵⁰-14.¹⁰ p.m. Carolin Dahley, Leipzig, Germany
New insights into the intrinsic permeability of organic chemicals through biological membranes II

14.¹⁰-14.³⁰ p.m. Amira Hanafy, Bonn, Germany
ISMICAP: a model for delving into blood-brain barrier mysteries

14.³⁰-14.⁵⁰ p.m. Sven M. Stefan, Oslo, Norway
Molecular-structural Basis for Target Repurposing Strategies to Explore Orphan Transporters and Modes-of-action

14.⁵⁰ - 15.²⁰ p.m. Coffee Break / Posters

15.²⁰-15.⁴⁰ p.m. Matthias Barz, Leiden, Netherlands
Alternatives to PEGylated Lipids: Stealth Lipids based on Endogenous Amino Acids and their impact on Liposomes, Lipoplexes and LNPs

15.⁴⁰- 16.⁰⁰ p.m. Victoria Klang, Vienna, Austria
Phospholipid-based dermal formulations: biocompatibility in vitro and effect on skin physiology

16.⁰⁰- 16.²⁰ p.m. Yulia Yuts, Zurich, Switzerland
Poly(aminoester) based inks for 3D printing of elastic, strong and biodegradable biomedical devices

16.²⁰- 16.⁵⁰ p.m. Christian Nehls, Borstel, Germany
Liposomes as bottom-up cell model systems for standardized compound testing in microfluidic setups

16.⁵⁰- 17.¹⁰ p.m. Lien Sabrina Reichel, Jena, Germany
Polyplex particles: Hydrophobic components facilitate membrane crossing and promote gene transfer of cationic polymers.

18.⁰⁰ p.m. Dinner
Subsequent get-together in the lounge and the garden of the Seminar Center

Wednesday, May 17., 2023

8.⁰⁰-9.⁰⁰ a.m. Breakfast

9.⁰⁰-9.²⁰ a.m. Christina Fey, Würzburg, Germany
Intestinal tissue models representing the in vivo situation to a high degree

9.²⁰-9.⁴⁰ a.m. Andreas Mack, Tübingen, Germany
Aquaporins in Postmortem Tissue and Cell Culture of the Human Choroid Plexus

9.⁴⁰-10.⁰⁰ a.m. Franz Hagn, Munich, Germany
Structural basis of metabolite transport by the chloroplast outer envelope channel OEP21

10.⁰⁰-10.²⁰ a.m. Markus Glaser, Würzburg, Germany
Investigation of mitochondrial function in neurovascular cell models of PARK2 copy number variation carriers with adult ADHD

10.²⁰-10.⁵⁰ a.m. Coffee Break / Posters

10.⁵⁰-11.¹⁰ a.m. Pat Muschong, Ludwigshafen, Germany
Improvements of workflows and assay reproducibility by "assay-ready" culturing of MDCK cells for transport studies

11.¹⁰-11.³⁰ a.m. Karin Danz, Sulzbach, Germany
Disease-specific, hiPS-based blood-brain barrier modelling for pharmaceutical applications

11.³⁰-11.⁵⁰ a.m. Mohammed Rafehi, Göttingen, Germany
Drug repurposing strategies and network poly-pharmacology to identify transporter modulators and overcome therapy failure

11.⁵⁰-12.¹⁰ a.m. Tamas Varga, Budapest, Hungary
The inhibitor preincubation effect is universal to SLC transporter assays and is only partially eliminated in the presence of extracellular protein

12.¹⁵ p.m. Lunch

End of the Meeting