BioMedical Transporters 2009 - Scientific Program as per August 3, 2009



Sunday, August 9, 2009

4:00 - 6:30 pm	Registration
6:00 - 7:45 pm	Cocktail Reception Dinner
7:45 - 8:00 pm	Opening & Welcome - Matthias Hediger, Organizer
8:00 - 10:00 pm	Session 1. Na/coupled glucose transport
	Chair: Matthias Hediger
8:00- 9:00 pm	Keynote Speaker
	Ernest M Wright (UCLA, Los Angeles, USA)
	The Biology of Na/Glucose transporters (SGLTs)
9:00 - 9:45 pm	Robert L Dobbins (GlaxoSmithKline, Inc., Research Triangle Park, NC, USA)
	Clinical application of SGLT2 inhibitors in type 2 diabetes mellitus
9:45 - 10:00 pm	Aouatef Bellamine (Bristol-Myers Squibb, Research and Development, Princeton, NJ, USA)
	Dapagliflozin is a potent, competitive, selective and reversible inhibitor of human SGLT2

Monday, August 10, 2009

Session 2. The GLUT (SLC2) family Chair: Bernard Thorens Mike Mueckler (Washington University Medical School, Department of Cell Biology and Physiology, St. Louis, N USA) Structure and Function Analysis of Mammalian Glucose Transporters Samuel Cushman (National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD, USA) Clustering of GLUT4 Molecules in the Plasma Membrane of Primary Adipose Cells as a Key Recycling Intermediate Bernard Thorens (University of Lausanne, Switzerland) GLUT2 and GLUT9 Coffee Break Wolf B. Frommer (Carnegie Institution for Science, Stanford, CA, USA) FRET sugar sensors for the identification of novel sugar transporters and their regulators Hirotaka Matsuo (National Defense Medical College, Saitama, Japan) Mutations in GLUT9 result in renal hypouricemia 12:00 - 1:30 pm Lunch 1:30 - 6:00 pm Session 3. Structure, molecular dynamics and assembly of channels and transport proteins Chair: Dimitrios Fotiadis (IBMM Bern) Peter Henderson (University of Leeds, Institute of Membrane and Systems Biology, Leeds, UK) Structures of the Mhp1 hydantoin transport protein and its relatives Chayne Piscitelli (Oregon Health and Science University, Vollum Institute, Portland, OR, USA) One fold for many functions: a common architecture unifies diverse secondary transporter familie Coffee Break
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3:20 - 4:00 pm Thomas Walz (Harvard Medical School, Boston, MA, USA)
Lipid-protein interactions in double-layered 2D crystals of aquaporin-0
4:00 - 4:40 pm Bert de Groot (Max Planck Institute, Computational biomolecular dynamics group, Göttingen, Germany)
Permeation and inhibition mechanisms in water and ion channels
4:40 - 5:05 pm Edmund R.S. Kunji (Medical Research Council, Cambridge, United Kingdom)
The transport mechanism of mitochondrial carriers
5:05 - 5:45 pm Andreas Kuhn (University of Hohenheim, Institute of Microbiology and Molecular Biology, Stuttgart)
The membrane insertase YidC is essential for the assembly of membrane protein
Evening No events scheduled - Enjoy the old city of Thun

Tuesday, August 11, 2009

8:15 - 12:00 am	Session 4. SLC and ABC Transporters
	Chairs: Yoshikatsu Kanai and John Rasko
8:15 - 8:55 am	Randy Blakely (Vanderbilt University School of Medicine, Nashville, TN, USA)
	ADHD Medications and the Dopamine Transporter: Have We Got it Backwards?
8:55 - 9:35 am	Donald Hilgemann (UT Southwestern, Dallas, TX, USA)
	Massive Endocytosis Activated by Calcium and Pro-apoptotic Processes in Non-Neuronal Cells
9:35 - 10:05 am	Coffee Break
10:05 - 10:45 am	John Rasko (Royal Prince Alfred Hospital, Newtown, Australia)
	Genetic defects of amino acid transporters (iminoglycinuria, hyperglycinuria, Hartnup Disease)
10:45 - 11:25 am	Manuel Palacin (Institute for Research in Biomedicine IRB, Barcelona, Spain)
	Heteromeric Amino acid Transporters: Physiology, pathology and structure
11:25 - 12:05 am	Naohiko Anzai (Department of Pharmacology and Toxicology, Kyorin University School of Medicine, Tokyo,
	Japan)
	Developing new medicines by targeting membrane transporters
12:10 - 1:40 pm	Lunch
1:40 - 6:00 pm	Session 5. Folate transporters: physiological and pharmacological roles
	Chairs: I. David Goldman and Philip Low
1:40 - 1:50 pm	Introduction
1:50 - 2:30 pm	Larry Matherly (Karmanos Cancer Center, Wayne State University, Detroit, MI, USA)
	The reduced folate carrier (SLC19A1)-structure, regulation, and clinical applications
2:30 - 3:10 pm	I. David Goldman (Albert Einstein College of Medicine, Bronx, NY, USA)
	The physiological and pharmacological roles of the proton-coupled folate transporter (PCFT-SLC46A1)
3:10 - 3:50 pm	Philip Low (Purdue University, West Lafayette, IN, USA)
	Folate Receptor-Mediated Delivery of Imaging and Therapeutic Agents to Pathologic Cells and Tissues
3:50 - 4:20 pm	Coffee Break
4:20 - 5:00 pm	Ann Jackman (Institute of Cancer Research, Surrey, London, UK)
	Exploiting the folate transporter for selective tumor delivery of novel antifolate drugs
5:00 - 5:40 pm	Richard Moran (Virginia Commonwealth University, Richmond, VA, USA)
	Transport of folates across the inner mitochondrial membrane
6:00 - 11:00 pm	Special Excursion to the Niesen Mountain. Enjoy dinner with spectacular views of the snow-capped Swiss
	mountains (sunset at 8:53 pm).

Wednesday, August 12, 2009

8:30 - 11:30 am	Session 6. SLC drug transporters: From physiology to diseases and toxicity
	Chairs: Ken-ichi Inui and David E. Smith
8:30 - 9:10 am	David E. Smith (College of Pharmacy, University of Michigan, Ann Arbor, MI, USA)
	Significance of PEPT1 and PEPT2 in Drug Absorption, Disposition and Dynamics: Lessons Learned from Genetically
	Modified Mice
9:10 - 9:50 am	Douglas H. Sweet (Virginia Commonwealth University, Richmond, VA, USA)
	Impact of Oat1 and Oat3 on drug disposition: Lessons learned from knockout mic
9:50 - 10:20 am	Coffee Break
10:20 - 11:00 am	Ken-ichi Inui (Kyoto University Hospital, Japan)
	Cooperation of OCTs and MATEs in drug disposition
11:00 - 11:40 am	Yuichi Sugiyama (University of Tokyo, Graduate School of Pharmaceutical Sciences, Tokyo, Japan)
	Clinical significance of pharmacogenomics and drug-drug interaction in OATPs-mediated
	pharmacokinetics/pharmacodynamic
11:40 - 13:00 am	Session 7. Metabolomics
	Chairs: Yoshikatsu Kanai and Yukio Kato
11:40 - 12:20 am	Yoshikatsu Kanai (Osaka, Japan)
	Metabolomics approaches to orphan transporters
12:20 - 13:00 am	Yukio Kato and Akira Tsuji (Kanazawa University, Faculty of Pharmacy, Kakuma-machi, Kanazawa, Japan)
	In vivo substrates of OCTN1 identified by CE/TOFMS metabolomics
13:00 - 2:30 pm	Lunch
2:30 - 2:50 pm	Session 7 continued
2:30 - 2:50 pm	Daniel Markovich (The University of Queensland, School of Biomedical Sciences, Brisbane, Australia)
	Anion transporters and their insights into pathophysiology using KO mice
2:50 - 6:00 pm	Session 8. Tight Junctions: Basic biology, clinical relevance and pharmaceutical target
	Chair: Klaus W. Beyenbach
2:50 - 3:30 pm	Dorothee Günzel (Institute of Clinical Physiology, Charité Campus Benjamin Franklin, Berlin, Germany)
	Tight junctions: From lab bench to bedside
3:30 - 4:10 pm	Ingolf Blasig (Leibniz-Institute of Molecular Pharmacology, Berlin-Buch, Germany)
	Tight junction - condition precedent to transport processes at tissue barriers
4:10 - 4:40 pm	Coffee Break
4:40 - 5:20 pm	Jörg-Dieter Schulzke (Department of General Medicine, Charité Campus Benjamin Franklin, Berlin, Germany)
5.00 6.60	Barrier-protective drugs in diseases of the small and large intestine
5:20 - 6:00 pm	Alessio Fasano (Mucosal Biology Research Center, University of Maryland School of Medicine, Baltimore, MD,
	USA)
	Dynamic Regulation of Passage Through Tight Junctions: Significance for Drug Delivery
6:00 - 8:00 pm	Session 9. Wine and cheese apéro and poster session (Katrin Bolanz, Bern)

Thursday, August 13, 2009

8:15 - 11:30 am	Session 10. Lipid Transport
	Chairs: Bruno Stieger and Christiane Albrecht
8:15 - 8:55 am	Albert K Groen (Academic Medical Center, University of Amsterdam, The Netherlands)
	Transintestinal lipid secretion: A novel mechanism to regulate cholesterol homeostasis
8:55 - 9:35 am	Ronald Oude Elferink (Academic Medical Center University of Amsterdam, The Netherlands)
	Cooperativity of the floppase ABCB4 and the flippase ATP8B1 in canalicular membrane integrity
9:35 - 10:05 am	Coffee Break
10:05 - 10:45 am	Arnold von Eckardstein (University Hospital Zürich, Institute of Clinical Chemistry, Switzerland)
	Roles of ABCA1 and ABCG1 beyond lipid efflux
10:45 - 11:25 am	Kenneth Kin Wah To (The Chinese University of Hong Kong, School of Pharmacy, Hong Kong SAR, China)
	Epigenetic regulation of ABCG2 in human cancer cells
11:25 - 11:30am	Poster Awards
11:30 - 12:30 pm	Lunch
12:30 - 2:00 pm	Session 11. Brain penetration in CNS drug discovery
	Chair: Bruno Stieger
•	Haojing Rong (Pfizer Global Research and Development, Groton, CT, USA)
	Human CNS Penetration: can it be predicted from preclinical data?
1:10 - 1:50 pm	Bo Feng (Pfizer Inc., Groton, CT, USA)
	The Synergistic Effect of P-Glycoprotein and Breast Cancer Resistance Protein on Limiting the Brain Penetration of
	Drug
2:00 - 6:00 pm	Session 12. Nucleoside Transporters: Roles in the pharmacodynamics of nucleoside drugs, genetic disorders and
	alcoholism
	Chair: Jash Unadkat
•	Jashvant (Jash) Unadkat (University of Washington, School of Pharmacy, Seattle, WA, USA)
	Nucleoside Transporters: Overview and Role in Treatment of Viral Diseases
2:40 - 3:10 pm	Coffee Break
3:10 - 3:50 pm	Marcal Pastor-Anglada (University of Barcelona (IBUB) and CIBER EHD, Barcelona, Spain)
2.50 4.20	Nucleoside transporters: role in cancer chemotherapy
3:50 - 4:30 pm	Raj Govindarajan (University of Georgia, Athens, GA, USA)
	Human Equilibrative Nucleoside Transporter-3: Localization, Transport, & Potential Link to Human H Syndrome and
4:20 E:10 nm	PHID Syndrome Doe Syn Chei (Mayo Clinic College of Medicine, Bochester, MNL USA)
4:30 - 5:10 pm	Doo-Sup Choi (Mayo Clinic College of Medicine, Rochester, MN, USA)
5:10 pm	Implication of Nucleoside Transporters in Alcoholism and Neurological Disorders Closing remarks
•	Special farewell dinner at the historic "Schloss Schadau"
7.00 - 10.00 pm	Special ratewell utilities at the Historic Schloss Schlaudu