

Transporttage 2015

19.-20. September

Göttingen



Cont. Sunday 20th

Transport of organic cations (Part II): Chair Hermann Koepsell

10:45 – 11:00 Jonas Albers – Göttingen: Interplay between the transport and metabolism on the example of OCT1 and CYP2D6

11:00 – 11:15 Johannes Menne – Münster: High glucose increases transport activities of hOCT2 and hMATE1 expressed in HEK293 cells

11:15 – 11:30 Viktoria Neumann – Göttingen: Comparative analysis of opioids as inhibitors and substrates of the organic cation transporter OCT1

11:30 – 11:45 Mladen Tzvetkov – Göttingen: Effects of genetic polymorphism in OCT1 on sumatriptan in humans

Concluding remarks and farewell: Gerhard Burckhardt



Göttinger Transporttage 2015

September 19th, 20th

Kindly sponsored by Sanofi-Aventis

Venue: Institute of Systemic Physiology and Pathophysiology, Humboldtallee 23, 37073 Göttingen

Saturday, September 19th

**Cell models and regulation of transporters:
Chair Helmut Wiczorek**

11:00 – 11:05 Gerhard Burckhardt – Welcome

11:05 – 11:20 Tamara Zietek – Weihenstephan:
Intestinal organoids: A physiological in vitro model
for nutrient transport studies

11:20 – 11:35 Jia Jia – Schwerin: Characterization
of stably transfected HEK293 cells expressing
uptake of transporters using fluorescent
substances

11:35 – 11:50 Karen Bannert – Rostock: Studies on
the structural and functional interaction of Sorting
Nexin 27 (SNX27) and DRA

11:50 – 12:05 Niamat Khan – Göttingen: Inhibition
of p38 MAPK ameliorates immunosuppressant
induced compromised tight junction in epithelial
cell model

12:05 – 12:20 Celio Ferreira – Basel: PDZK1, a
possible modulator of OATP2B1-transporter

12:20 – 12:50 Hermann Koepsell – Würzburg:
Ornithine decarboxylase is involved in regulation
of the exocytotic pathway of sodium-D-glucose
cotransporter SGLT1 by protein RS1 (RSC1A1)

13:00 – 14:30 Lunch

**Characterization of transporters and
channels (Part I): Chair Cesare Indiveri**

14:30 – 14:45 Tamara Stelzl – Weihenstephan:
Effect of N-glycosylation on the transport activity
of the peptide transporter PEPT1

14:45 – 15:15 Ivan Sabolic – Zagreb: Sex-related
immunolocalization of CFEX in rat organs

15:15 – 15:30 Nina Schnedler – Göttingen:
Regulation of sulfate anion transporter 1 (sat-1,
SLC26a1) in colon, liver, and kidney cell lines

15:30 – 15:45 Alexandr Ilyaskin – Erlangen: The
degenerin region of human BASIC is involved in
channel inhibition by Ca²⁺ and activation by bile
acids

15:45 – 16:00 Alexei Diakov – Erlangen: Connexin
30 (Cx30) inhibits human epithelial sodium
channel (ENaC) expressed in *Xenopus laevis*
oocytes

16:15 – 16:30 Marko Bertog – Erlangen:
Stimulation of the epithelial sodium channel
(ENaC) by aldosterone requires proteolytic activity

16:30 – 17:00 Coffee Break

**Characterization of transporters and
channels (Part II): Chair Eberhard Schlatter**

17:00 – 17:15 Birgitta C. Burckhardt – Göttingen:
Hepatic and renal handling of dantrolene and 5-

hydroxy dantrolene by transporters of the SLC22A
family

17:15 – 17:30 Olga Vitavska – Osnabrück:
Towards the physiological functions of the SLC45
family

17:30 – 18:00 Gerhard Burckhardt – Göttingen:
Transport experiments 1980-1990

18:00 Dinner at the institute

Sunday, September 20th

**Transport of organic cations (Part I): Chair
Ivan Sabolic**

9:00 – 9:15 Jiayin Chen – Göttingen: Alkaloids as
substrates and inhibitors of organic cation
transporters (OCTs and MATEs)

9:15 – 9:30 Anna Hucke – Münster: Acute
regulation of human multidrug and toxin
extrusion protein 1 (hMATE1)

9:30 – 9:45 Judith Müller – Göttingen: Validation
of MATE1 and MATE2-K mediated uptake of
metformin in comparison to MPP and the
interaction of MATE2-K with antineoplastic agents

9:45 – 10:00 Jana Zell – Münster: Interactions of
platin derivatives with OCTs and hMATE1

10:00 – 10:15 Lorena Pochini – Arcavacata di
Rende: Novel aspects of substrate specificity and
redox control of OCTN1

10:15 – 10:45 Coffee Break

