

Transporttage 2016

15.-16. October

Göttingen

## The GTT Family 2016



### **Saturday, October 15<sup>th</sup> (continued)**

19:15 – 19:30 *Susanne K. Muther et al. – Mainz:*  
Identification of the promoter for the human cationic amino acid transporter hCAT-1

**19:30 Dinner (open end)**

### **Sunday, October 16<sup>th</sup>**

#### **Organic cation and anion transporters in pharmacology (Chair: Mladen Tzvetkov)**

9:00 – 9:15 *Birgitta C. Burckhardt et al. – Göttingen:*  
Handling of selected FDA-approved drugs by the organic anion transporter 3 (OAT3)

9:15 – 9:30 *Judith Müller – Göttingen:*  
Interaction of OCTN2, PEPT1 and PEPT2 with antineoplastic drugs

9:30 – 9:45 *Giuliano Ciarimboli – Münster:*  
MATE1 as an imatinib transporter

9:45 – 10:00 *Beatrice Kisser – Greifswald:*  
Kinetic characterization of the transporters involved in the intestinal and hepatic processing of ezetimibe

10:00 – 10:15 *Pedro Pionto – Utrecht, the Netherlands:*  
Cetuximab prevents methotrexate-induced nephrotoxicity through EGFR dependent regulation of renal drug transporters

10:15 – 10:30 *Johannes Matthaei – Göttingen:*  
Effects of genetic polymorphisms in OCT1 on the pharmacokinetics of the antimalarial drug proguanil

**10:30 – 11:10 Coffee Break**

#### **Methodological issues, biomarkers (Chair: Cesare Indiveri)**

11:10 – 11:35 *Ivan Sabolic et al. – Zagreb, Croatia:*  
How specific are specific antibodies; knockout mouse model as the only reliable test of specificity.

11:35 – 11:50 *Swen Hülsmann – Göttingen:*  
The rise and fall of sulforhodamine 101 as a cell type specific biomarker for brain imaging and how it reveals novel functions of OATP1C1

11:50 – 12:15 *Mladen Tzvetkov – Göttingen:*  
OCT1: The Lord gives and the Lord takes away, but why?

**12:15 – 12:30 Concluding remarks and farewell: Giuliano Ciarimboli and Mladen Tzvetkov**

## **Göttinger Transporttage 2016**

**15<sup>th</sup> and 16<sup>th</sup> October**

**Kindly sponsored by:  
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#### Venue:

Lecture hall 04 (HS04)  
University Medical Center  
Robert-Koch-Straße 40  
37075 Göttingen

**Saturday, October 15<sup>th</sup>**

**11:30 – 11:45 Mladen Tzvetkov – Welcome**

**Membrane transport in the intestine**  
(Chair: Helmut Wieczorek)

11:45 – 12:00 Katerina Nikolovska – Hannover:  
The role of NHE2 in proliferation, migration and differentiation of intestinal epithelial cells *in vivo* and *in vitro*

12:00 – 12:15 Yan Yu – Hannover:  
Isoform-specific apical and basolateral Na<sup>+</sup>/H<sup>+</sup> exchanger activities in the self-differentiating intestinal cell line Caco2bbe

12:15 – 12:30 Karen Bannert – Rostock:  
The impact of Sorting Nexin 27 (SNX27) on the function of DRA (SLC26A3)

12:30 – 12:45 Johannes Reiner – Rostock:  
NOD2 deficiency impairs the intestinal tight junction barrier in a murine short bowel model

12:45 – 13:00 Markus Keiser – Greifswald:  
Affinity of antibiotics to intestinal uptake and efflux transporters

**13:00 – 14:30 Lunch**

**Structure-function relationships of membrane transporters**  
(Chair: Giuliano Ciarimboli)

14:30 – 15:00 Hermann Koepsell – Würzburg:

Critical amino acids within the flexible polyspecific substrate binding region of rat organic cation transporter 1

15:00 – 15:15 Tina Seitz – Göttingen:  
Substrate-specific effects of the M420del polymorphism in OCT1: What do we know so far?

15:15 – 15:30 Marleen Meyer – Göttingen:  
OCT1 of mice and men: Comparative characterization of human organic cation transporter OCT1 and its rodent orthologs

15:30 – 15:45 Mariafrancesca Scalise – Arcavacata di Rende, Italy:  
Common features and differences in organic cation transporters of different kingdoms

15:45 – 16:00 Jörg König – Erlangen:  
Transport kinetics and structure-function relationships: to learn from polymorphisms and mutations

**16:00 – 16:30 Coffee Break**

**Physiology of membrane transport: Something old, something new, ... and something different**  
(Chair: Gerhard Burckhardt)

16:30 – 16:50 Joachim Geyer – Gießen:  
SLC10: new insights into an old carrier family

16:50 – 17:05 Olga Vitavska – Osnabrück:  
Towards the physiological functions of the SLC45 family

17:05 – 17:20 Henriette Meyer zu Schwabedissen – Basel, Switzerland:  
SLC01B7 – a transporter or just a genetic relict?

17:20 – 17:40 Robert Steinfeld – Göttingen:  
Physiology and Pathology of Cerebral Folate Transport

17:40 – 17:55 Johanna Salomon – Heidelberg:  
The epithelial Cl<sup>-</sup> channel SLC26A9 as an alternative target in chronic airway diseases

**17:55 – 18:00 Short Break**

**Transcriptional, posttranslational, and epigenetic regulation of transport**  
(Chair: Eberhard Schlatter)

18:10 – 18:25 Anna Hucke – Münster:  
Regulation of hOCT2 by angiotensin II

18:25 – 18:45 Kristina Kusche-Vihrog – Münster:  
Endothelial ENaC (EnNaC) determines nanomechanics and function of vascular endothelium (KKV)

18:45 – 19:00 Paul Roche – Münster:  
Rapid regulation of EnNaC through aldosterone and the effect on endothelial nanomechanics (PR)

19:00 – 19:15 Marie Lindsay – Kiel:  
Length variations of 3'-UTRs of ABC-drug transporters and consequences in microRNA regulation and pharmacotherapy resistances