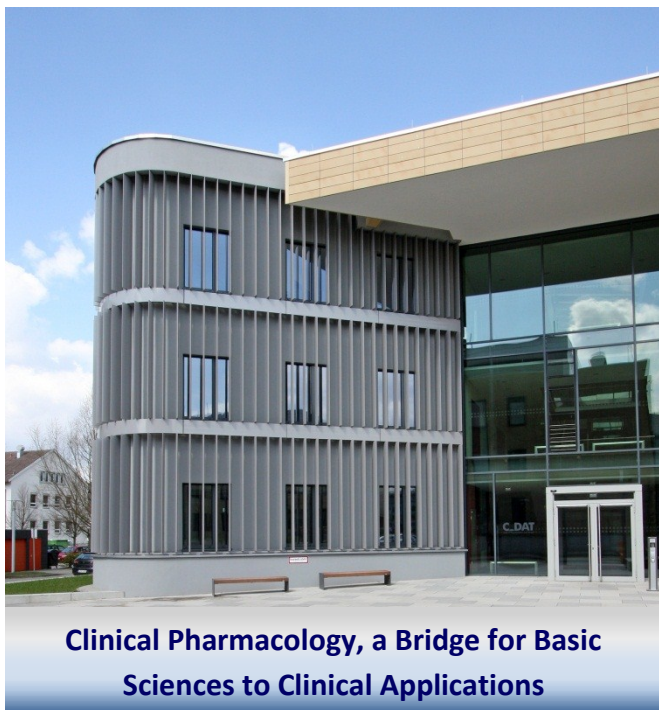




Department of Clinical Pharmacology

(1973 -2013)



Clinical Pharmacology, a Bridge for Basic Sciences to Clinical Applications

Symposium and workshops on behalf of the
40. Anniversary, Greifswald, September 2013

Stefan Oswald
Werner Siegmund
Werner Weitschies

Thursday, 12. September 2013

Festveranstaltung

11.00 – 12.00

Johanna Eleonore Weber, Rektorin der Ernst-Moritz-
Arndt-Universität Greifswald
Reiner Biffar, Dekan der Medizinischen Fakultät
Matthias Schwab, Vorsitzender der DGKliPha
Werner Weitschies, Vorstand C_DAT
Werner Siegmund, Abt. Klinische Pharmakologie

Presystemic elimination mechanisms along the entry route of drugs

13.00 – 15.30 (*Ingolf Cascorbi, Kurt Bestehorn*)

Werner Weitschies (Greifswald)

Physiological preconditions for drug absorption along
the gastrointestinal tract.

Marek Drozdziak (Szczecin, Poland)

Expression of mRNA and protein content of multidrug
transporters along the human the small and large
intestine as measured by real-time RT-PCR and LC-
MS/MS.

Kim L. Brouwer (Chapel Hill, North Carolina, USA)

Sandwich-cultured hepatocytes – an in-vitro model to
evaluate hepatobiliary drug disposition and
transporter-based drug-drug interactions.



Zeruesenay Desta (Indianapolis, Indiana, USA)

Genetic and non-genetic mechanisms of interindividual variability in human drug disposition, drug interactions and effects: e.g. tamoxifen and efavirenz.

Matthias Schwab (Stuttgart)

Epigenetic regulation of drug transporters by DNA methylation.

16.00 - 18.00 (*Ulrich Klotz, Bernhard Rauch*)

Yurong Lai (Groton, Connecticut, USA)

Prediction of drug transport in man by in-vitro data.

Catherine M. Pastor (Geneva, Switzerland)

Hepatic drug transporters: Uptake carriers for MRI contrast agents .

Evan Kharasch (St. Louis, USA)

Opioids, transporters, and the blood-brain barrier.

Jacques Turgeon (Montreal, Canada)

The role of cardiac CYP450s and drug transporters on drug-induced Long QT Syndrome.

19.00

Get together in the State Museum of Pomerania with guided tours to the art treasures of the University of Greifswald and the paintings of Caspar David Friedrich



Friday, 13. September

Measures to evaluate the entry route of drugs in man (workshop I)

09.00 – 10.00

Mirko Koziolok (Greifswald)

Functional imaging of gastric emptying.

Anja Paulick (Greifswald)

The fate of water in healthy subjects after drinking 240 ml and correlations with the absorption of acetaminophen and amoxicillin: results of a MRI and pharmacokinetic study.

Julia Kolbow (Greifswald)

Efficacy of opioid antagonists to prevent opioid induced constipation: Methods to evaluate changes in intestinal transit times in healthy subjects.

Dana Schönherr (Greifswald)

Intestinal microdialysis: An experimental challenge to measure local drug concentrations on the intestinal places of drug absorption.



10.00 – 11.00 Poster session



11.00 – 13.00

Gunnar Glöckl (Greifswald)

Colon models: How to simulate the complexity of the colonic microbiotic function.

Henrike Bruckmüller (Kiel)

Does intestinal bypass surgery (Roux-en-Y) influence absorption of drugs? A clinical pharmacological approach comprising molecular-biological, protein-analytical and probe-drug techniques.

Mladen V. Tzvetkov (Göttingen)

Role of OCT1 for hepatic uptake and metabolism of drugs: Clinical pharmacological evaluations using a pharmacogenomics approach.

Jens Kühn (Greifswald)

Magnetic resonance enhanced imaging by gadoxetate - a clinical measure for hepatic transporter function?

Kim L. Brouwer (Chapel Hill, North Carolina, USA)

^{99m}Tc -mefrofenin and ^{99m}Tc -sestamibi: clinical probes to assess hepatobiliary transport.

Grzegorz Bartosz (Łódź, Poland)

Fluorescent markers in MDR research - friends or foes?

Kathleen Klein (Greifswald)

Pharmacogenomics of severe phenprocoumon associated gastrointestinal bleeding.



Drug transport in special compartments (workshop II)

09.00 – 10.00

Carsten Ehrhardt (Dublin, Ireland)

Drug transporters in the blood-air barrier: implications for pulmonary drug delivery.

Sarah Berlin (Greifswald)

Intestinal and pulmonary transporters - meaning for absorption and pulmonary distribution of macrolide antibiotics in foals.

Henriette Meier zu Schwabedissen (Basel, Switzerland)

Cardial drug transporters - designing of drug eluting stents.

10.00 – 11.00 Poster session



11.00 – 13.00

Fabian Müller (Erlangen)

Renal drug interactions with cation transporters (OCT2/MATE).

Sandra Bien-Möller (Greifswald)

Multidrug transporters in human brain and glioblastoma multiforme.

Markus Keiser (Greifswald)

Drug transporters in the human bladder - preconditions for vesical administration of bladder spasmolytic drugs.



Gabriele Jedlitschky (Greifswald)

Transporters and cell signalling: physiological functions and regulation of the ABC transporter MRP4 (ABCC4).

Bernhard Rauch (Greifswald)

Sphingosine-1-phosphate – a proinflammatory lipid released from platelets via MRP4 (ABCC4).

Jacques Turgeon (Montreal, Canada)

Transporter-based reasons for statine myotoxicity.

Karen Saljé (Greifswald)

Function of drug transporter in the human placenta barrier.

NN

Organizing Office

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Posters to be presented:

Deadline 01. August 2013