

9th German Pharm-Tox Summit / 90. Jahrestagung der Deutschen Gesellschaft für Experimentelle und Klinische Pharmakologie und Toxikologie (DGPT) in Zusammenarbeit mit der AGAH

13.03.2024

08:30 –11:45

**DGP and DGKliPha
Advanced Course in Pharmacology**

Wieland HS

Vorsitz

Ingolf Cascorbi (Kiel)

Elke Oetjen (Hamburg)

08:30 -08:30

Part 1: Single cell sequencing - methods and applications
Susanne Lutz (Göttingen), Marc Freichel (Heidelberg)

08:30 -09:15

Using single cell transcriptomics to chracterize the impact of CD40 signaling in myocardial infarction
Alexander Lang (Düsseldorf)

09:15 -10:00

Advancements in single cell-omics
Mumin Ozturk (Nijmegen)

10:00 -10:10

Coffee Break

10:10 -10:55

Suggestions in single-cell analysis
Luke Zappia (München)

10:55 -11:00

Coffee Break

11:00 -11:00

Part II: Clinical Pharmacology

11:00 -11:45

Fifty years of drug discovery: past and future
Michael Spedding (LE VESINET)

09:00 –11:05

Advanced Course GT Overview of available testing methods and testing strategies with a focus on non-animal methods

Bayer HS

Vorsitz

Tina Hofmaier (Vienna)

Michael Werner (Wöllstein)

09:00 -09:15

Introduction

Michael Werner (Wöllstein)

09:15 -09:45

Available/accepted methods/strategies

Stephanie Melching-Kollmuss (Limburgerhof)

09:45 -10:15

Endpoint specific methods in development and to come (EU and non-EU)

Anne Gourmelon (Wageningen)

10:15 -10:45

The EFSA database on pesticides endocrine disrupting properties and the impact of the assays measuring the endocrine activity

Martina Panzarea (n.a.), Andrea Terron (Verona)

10:45 -11:05

Coffee break

11:05 –13:45

Advanced Course GT Regulatory aspects in ED assessment and status during evaluation procedures

Bayer HS

Vorsitz

Philip Marx-Stölting (Berlin)

11:05 -11:35

Regulatory approaches PPP/Biocides and experiences gathered so far

Vera Ritz (Berlin)

11:35 -12:05

Regulatory approaches under REACH and other regulations (cosmetics, medical devices, food contact materials) - An overview of experiences

Michaela Moors-Frericks (Mannheim)

12:05 -12:35

CLP regulation and C&L for ED effects - State of the play, challenges, implementation

Nicolaj Heuer (Dortmund)

12:35 -12:55

Coffee break

12:55 -13:45

Panel discussion - Challenges in the Establishment, Validation and Acceptance of ED Testing Methods from the Scientific and Regulatory Point of View

Nicolaj Heuer (Dortmund), Michaela Moors-Frericks (Mannheim), Vera Ritz (Berlin), Martina Panzarea (n.a.), Andrea Terron (Verona), Stephanie Melching-Kollmuss (Limburgerhof), Michael Werner (Wöllstein)

12:15 –13:45

Forum Junge Wissenschaft

3R: Reduce, Refine, replace ... rethink? Innovations in animal replacement

Liebig HS

Vorsitz

Fee Göllitz (München)

Benedikt Bauer (Bonn)

12:15 -12:45

Pain research in a petri dish? Chances and limitations of cell culture models in pain research

Stephan Leisengang (Gießen)

12:45 -13:15

Cartilage regeneration by means of tissue engineering

Eva Maria Eisenbarth (Iserlohn)

13:15 -13:45

The set Foundation - support and funding of 3Rs methods for almost four decades

Kristina Wagner (Neubiberg)

12:15 –13:45

Symposium 1

New Drug Targets in Atrial Fibrillation

Wieland HS

Vorsitz

Sebastian Clauß (München)

Niels Voigt (Göttingen)

12:15 -12:37

Small-conductance Calcium-activated potassium (SK)-channels

Dobromir Dobrev (Essen)

12:37 -12:59 Two-pore domain potassium channels
Constanze Schmidt (Heidelberg)

12:59 -13:22 Phosphodiesterases
Cristina Molina (Hamburg)

13:22 -13:45 Cytosolic Calcium buffering
Funsho Fakuade (Göttingen)

**12:15 –13:45 Symposium 2
Nucleic acid therapy (Joint Symposium SFB
TRR267)**

Butenandt HS

Vorsitz Veit Hornung (München)
Stefan Engelhardt (Munich)

12:15 -12:37 RNAi Based therapeutics: Advances, opportunities and challenges
Markus Stoffel (Zürich)

12:37 -13:00 Clinical development of small RNA therapeutics
Thomas Thum (Hannover)

13:00 -13:22 Small RNA therapies for cardiac regeneration and gene editing
Mauro Giacca (London)

13:22 -13:45 Delivery of nucleic acid therapeutics
Olivia Merkel (München)

**12:15 –13:45 Symposium 18
9. Pharmakologie-historisches Forum**

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Vorsitz Helmut Greim (Munich)
Athineos Philippou (Innsbruck)

12:15 -12:20 Einleitung
Athineos Philippou (Innsbruck)

12:20 -13:05	Geschichte der Münchener Pharmakologie am Beispiel des Walther-Straub-Instituts Peter Eyer (Munich)
13:05 -13:25	Geschichte der Toxikologie der Technischen Universität München Helmut Greim (Munich)
13:25 -13:40	Oswald Schmiedeberg - Leben und Wirken Helmut Greim (Munich)
13:40 -13:45	Diskussion, Schlussworte Helmut Greim (Munich)
14:00 –15:30	Short talks Toxicology 1 General Toxicology
Liebig HS	
Vorsitz	Wim Wätjen (Halle (Saale)) Jennifer Susanne Strehse (Kiel)
14:00 -14:15	Effect of simultaneous exposure to mixtures of skin sensitizers and irritants on a 3D skin model: A metabolomics approach. Christian Kersch (Erlangen)
14:15 -14:30	The structural, molecular, and functional basis of polypharmacology: Implications for toxicology and modern drug development Sven Marcel Stefan (Lübeck)
14:30 -14:45	Old dog, new tricks - The increasing use and impact of the Sandell-Kolthoff-reaction in toxicological studies on endocrine disruptors of the thyroid hormone system Kostja Renko (Berlin)
14:45 -15:00	Ecotoxicological risk of World War relic munitions in the sea after low and high order blast in place operations Jennifer Susanne Strehse (Kiel)
15:00 -15:15	Is benzoyl peroxide a significant occupational contact allergen? Kerstin Egele (Trier)

15:15 -15:30

Epigenetic bases of gene - environment interactions
Ivano Amelio (Konstanz)

14:00 –15:30

Short talks Pharmacology 2
Cardiac pharmacology, signal transduction and second messengers

Bayer HS

Vorsitz

Alexander Pfeifer (Bonn)
Susanne Lutz (Göttingen)

14:00 -14:15

Thrombin receptor PAR4 transactivates the receptor tyrosine kinase c-met in atrial myocardium
Anke Fender (Essen)

14:15 -14:30

In Ang II-treated mice, NO-induced cGMP reduces cAMP and Phospholamban phosphorylation via PDE2 in cardiac muscle.
Lukas Menges (Bochum)

14:30 -14:45

Pancreatic β -cell specific deletion of Cav β 3 or of Cav β 2 causes opposite effects on glucose clearance in mice
Houssein Salah (Heidelberg)

14:45 -15:00

Thyroid hormone (TH) action in ischemic heart disease
Stefanie Dörr (Dortmund)

15:00 -15:15

Hypertension-causing mutations in the phosphodiesterase 3A gene protect from end-organ damage
Anastasiia Sholokh (Berlin)

15:15 -15:30

3',5'-cyclic pyrimidine nucleotides modulate growth and biofilm formation in *Pseudomonas aeruginosa*
Bastian Schirmer (Hannover)

14:00 –15:30

Short talks Pharmacology 3 CNS/endocrine pharmacology

Wieland HS

Vorsitz

Eva Neuhaus (Jena)

Franziska Richter Assencio (Hannover)

14:00 -14:15

Behavioural and transcriptomic analysis of adhesion G protein-coupled receptor L3.1 (adgrl3.1) mutant zebrafish

Florian Reichmann (Graz)

14:15 -14:30

Increase in bodyweight is lowered when mice received fecal microbiota transfer from donor mice that were treated with the AT₁ receptor antagonist telmisartan

Walter Raasch (Lübeck)

14:30 -14:45

Fecal microbiota transplantation (FMT) from healthy and bipolar donors elicit distinct emotional behaviors and gut-brain metabolite profiles in mice

Aitak Farzi (Graz)

14:45 -15:00

Untargeted metabolomics for diagnosis and treatment of adrenocortical tumors: Screening for novel biomarkers in urine

Nora Vogg (Erlangen)

15:00 -15:15

Apilarnil alleviates neurodegeneration and motor dysfunction in rotenone-induced Parkinson"s disease rat model via promoting microglial polarization: Impact on M1/M2 microglial pathway

Rania Salama (Cairo)

14:00 –15:30

Short talks Pharmacology 4 Ion channels and membrane transporters

Butenandt HS

Vorsitz

Mladen V. Tzvetkov ()

14:00 -14:15

Expression and function of Transient Receptor Potential (TRP) channels in murine lung interstitial macrophages (IM)

Suhasini Rajan (Munich)

- 14:15 –14:30 *Cacnb3* in mouse brain microvascular endothelial cells contributes to blood-brain barrier integrity by controlling cytoplasmic Ca²⁺ concentration and myosin light chain kinase activity
Anouar Belkacemi (Heidelberg)
- 14:30 –14:45 Endolysosomal TRPML1 channel regulates cancer cell migration by altering intracellular trafficking of E-cadherin and β 1-integrin.
Lina Ouologuem (Munich)
- 14:45 –15:00 Functional analyses following the recently published cryo-EM structures to address the mechanisms of OCT1 polyspecificity
Sarah Römer (Greifswald)
- 15:00 –15:15 Differential roles of HCN1 and HCN4 in the synchronization process of sinoatrial node pacemaker cells.
Konstantin Hennis (Planegg-Martinsried)
- 15:15 –15:30 Overcoming Drug Resistance with Carboranes
Lydia Kuhnert (Leipzig)
- 14:00 –15:00 Meeting**
GT Arbeitskreises Regulatorische Toxikologie
D 0.001
- 15:15 –16:15 Meeting**
AK - Computational Toxicology
D 0.001
- 15:45 –16:45 Plenary Lecture**
Plenary Lecture – Veit Hornung
Liebig HS
- 15:45 –16:00 Welcome
Stefan Engelhardt (Munich), Thomas Gudermann (München)

- 16:00 -16:45 RNA therapeutics meet the immune system - opportunities and pitfalls
Veit Hornung (München)
- 16:45 –18:00 Meeting**
AK - Respiratorische Toxikologie
- D 0.001
- 17:00 –18:30 Poster Walk and Get Together 1**
3R Practice / Alternative Methods
- Poster Self-Study 1
- Vorsitz Wim Wätjen (Halle (Saale))
- 17:00 -17:00 Amino Reactivity of Aromatic Aldehydes – Chemoassay Analysis of Mechanisms Underlying Their Skin Sensitization Potency
Alexander Böhme (Leipzig)
- 17:00 -17:00 Amino Reactivity-Based Identification of Respiratory Sensitizers
Martin Simoneit (Leipzig)
- 17:00 -17:00 An LC-MS based assay to identify test substances displacing thyroid hormones from hormone binding proteins.
Ayse Aktalay Hippchen (Ludwigshafen am Rhein)
- 17:00 -17:00 Pre-clinical development of therapeutic approaches in organomimetic living myocardial slices
Maria Jordan (Hannover)
- 17:00 -17:00 Stabilizing native CYP450 activity in human ex vivo models for assessing extra-hepatic drug metabolism in personalized medicine.
Sabrina Yamoune (Aachen)
- 17:00 -17:00 Influence of Nephrotoxins on the Differentiation and Dedifferentiation Processes of Human-Induced Pluripotent Stem Cells to Kidney Cells
Isaac Musong Mboni Johnston (Düsseldorf)

- 17:00 -17:00 Setting upper concentrations in *in vitro* toxicity testing: Case study for Dicamba
Philipp Demuth (Ludwigshafen), Eric Fabian (Ludwigshafen am Rhein)
- 17:00 -17:00 Dermal absorption studies in vitro: New application to estimate transfer rates and absorptions of dermally applied dried residues of plant protection products
Eric Fabian (Ludwigshafen am Rhein)
- 17:00 -17:00 A human in vitro two-organ on chip approach (lung-liver) for toxicological investigations: A case study using Paraquat
Eric Fabian (Ludwigshafen am Rhein), Katja Graf (Ludwigshafen)
- 17:00 -17:00 Analysis of DNA damage in *C. elegans* via the automated FADU assay.
Joanna Ruskiewicz (Konstanz)
- 17:00 -17:00 Evaluation of Microalgal Ichthyotoxins Using RTgill-W1 Cells and Rhodomonas Salina: An Innovative Approach Emphasizing 3R Principles
Magdalena Pöchhacker (Vienna)
- 17:00 -17:00 iPSC, iPSC differentiating and iPSC differentiated into renal proximal tubular cells differ in their response to oxidative substances
Sören Hartmann (Düsseldorf)
- 17:00 -17:00 Precision cut tissue slices for 3R-compliant organ toxicity assessment – comparison of cytotoxicity assays
Nicole Schupp (Düsseldorf)
- 17:00 -17:00 Next generation risk assessment (NGRA) approaches based on in vitro transcriptomics and physiology based toxicokinetic modelling: A case study using Paracetamol
Philipp Demuth (Ludwigshafen)
- 17:00 -17:00 New non-invasive, label-free monitoring approach for 2D and 3D
Anna Jötten (Planegg-Martinsried)

17:00 –18:30

Poster Walk and Get Together 2 Cancer pharmacology

Poster Self-Study 2

Vorsitz

Stefan Engeli (Greifswald)

Hagen Sjard Bachmann (Witten)

17:00 -17:00

Radioprotective Effect of L-Carnitine on Ionizing Radiation-Induced Lung Damage

Nasif Fatih Karakuyu (Isparta)

17:00 -17:00

2-Desaza Annomontine (C81) Impedes Angiogenesis Through Inhibition of CDC2-like Kinases (CLKs) and β -Catenin Activity

Thomas Zech (Frankfurt am Main)

17:00 -17:00

Genome-wide copy-number profiling enables the identification of novel therapeutic targets in Follicular Lymphoma

Sabrina Kalmbach (Stuttgart)

17:00 -17:00

Indolyl-chalcone derivatives induce pleural mesothelioma cell apoptosis through aberrant tubulin polymerization and deregulation of microtubule-associated proteins

Sophia Steinlein (Stuttgart)

17:00 -17:00

The role of DYRK1B in cancer cells in response to DNA damage and changes in phenotypic plasticity

Gerrit Wilms (Aachen)

17:00 -17:00

The monoacylglycerol lipase inhibitor JZL184 exhibits antiangiogenic effects on endothelial cells through inhibition of VEGF expression in hypoxic lung cancer cells

Felix Wittig (Rostock)

17:00 -17:00

CYP2B6: Regulation of expression by estrogen in the context of ER positive breast cancer

Marco Hoffmann (Aachen)

17:00 -17:00

The role of DUSP2 in drug resistance in acute lymphoblastic leukemia

Farah Syed (Kiel)

- 17:00 -17:00 Interaction of the alanine aminopeptidase N and the protease-activated receptor-2 in colon cancer cells
Hanna Kretschmer (Oldenburg)
- 17:00 -17:00 Targeting the RNA-binding protein IGF2BP2/IMP2 to overcome chemoresistance in cancer treatment
Simon Both (Saarbrücken)
- 17:00 -17:00 Investigation on the transcriptional regulation of the inducible dual specificity phosphatase 2 (DUSP2)
Jonas Kulartz (Kiel)

17:00 –18:30 **Poster Walk and Get Together 3** **Disease models, drug development**

Poster Self-Study 3

Vorsitz

Anke Fender (Essen)

Bernhard Rauch (Oldenburg)

- 17:00 -17:00 Heart-directed overexpression of the PP2A regulatory subunit PR72 resulted in premature ischemic contracture but preserved contractility during reperfusion
Lars Schmidt (Münster)

- 17:00 -17:00 Recombinant CTRPs exert anti-apoptotic and anti-hypertrophic effects in cardiomyocytes
Constanze Schanbacher (Würzburg)

- 17:00 -17:00 cGMP-dependent PDE2 activation as a potential antiarrhythmic therapy strategy in heart failure
Rebecca Firneburg (Dresden)

- 17:00 -17:00 Pharmacological reversal of behavioural and microglial aberrancies in a model of high trait anxiety
Simone B. Sartori (Innsbruck)

- 17:00 -17:00 Proteome analysis of mouse retinas carrying pathogenic Cav1.4 L-type calcium channel variants
Matthias Ganglberger (Innsbruck)

- 17:00 -17:00 Do the isoforms of the human farnesyltransferase have unique functions and response to respective inhibitors?
Anna Hagemann (Witten)
- 17:00 -17:00 SMAD4 maintains the Fluid Shear Stress set point to protect against Arterial-Venous Malformations
Roxana Ola (Mannheim)
- 17:00 -17:00 cellasys #8: An assay for monitoring metabolism and morphology of organ-models in real-time
Joachim Wiest (Kronburg)
- 17:00 -17:00 Neuronal processing of hypercapnia-induced anxiety in a model of high trait anxiety
Nino Kobakhidze (Innsbruck)
- 17:00 -17:00 Investigating the active centrum of the humane farnesyltransferase β -subunit for a better druggability
Tobias Wellbrock (Witten)
- 17:00 -17:00 "From Drugs to Drugs": History of Neosalvarsan as chemical starting lead for numerous pharmacological classes with diverse pharmacological activities and clinical indications in the 20th century
Hubert Heuer (Schwabenheim)
- 17:00 -17:00 Dissecting the *in vivo* role of X-linked lncRNA loci with conserved sex- and allele-specific epigenetic signatures
Tim Hasenbein (Munich)
- 17:00 -17:00 Transneuronal delivery of designer-cytokine enables functional recovery after severe chronic spinal cord injury in mice
Marco Leibinger (Cologne)
- 17:00 -17:00 Reduced CRMP2 activity by p35/CDK5 compromises nerve regeneration in diabetes
Philipp Gobrecht (Cologne)
- 17:00 -17:00 The lncRNA landscape of cardiac resident macrophages and identification of *Schlafenlnc* as a regulator of macrophage migratory function
Anne Dueck (Munich)

- 17:00 -17:00 Receptor of Hyaluronan-Mediated Motility (RHAMM) confers protection after acute cardiac ischemia
Angelika Pastuschka (Düsseldorf)
- 17:00 -17:00 Novel selenium compounds acting as potent inhibitors of ferroptosis
Melanie Merkel (Marburg)
- 17:00 -17:00 Sympathetic denervation of the pineal gland in heart disease
Karin Ziegler (Munich)
- 17:00 -17:00 The purely thermodynamic anti-prionic mode of action for the treatment of neurodegenerative diseases.
Dieter Willbold (Jülich)
- 17:00 -17:00 A Novel Chemotype of Cyclin Dependent Kinase Inhibitors Potent for Neuroblastoma Cells
Erik Gandalipov (Berlin)
- 17:00 -17:00 Anti-inflammatory and Anti-oxidative Effects of STW 42 and Root Extract of *Althaea officinalis* L. on endothelial cells, fibroblasts and macrophages *in vitro*
Olaf Kelber (Darmstadt)
- 17:00 -17:00 Elucidating missing X factors to understand sex bias in cardiovascular diseases
Sarah Hoelzl (Munich)
- 17:00 -17:00 Effects of STW 3-VI (St. John's wort) on the paracrine signaling between neurons and microglia under pro-inflammatory conditions *in vitro*
Olaf Kelber (Darmstadt)
- 17:00 -17:00 Assessment of immunogenicity in mice and cross-species activity of an engineered complement regulator
Christoph Schmidt (Ulm)
- 17:00 -17:00 Diabetes impairs β -adrenergic signal transduction in the remote myocardium during the reparative phase after ischemia/reperfusion injury
Florian Funk (Düsseldorf)

- 17:00 -17:00 Identification of key lncRNAs in cardiac resident macrophages using pooled CRISPR screens
Niklas Petzold (Munich)
- 17:00 -17:00 A long non-coding RNA that regulates MHCII expression in cardiac macrophages
Lara Althaus (Munich)
- 17:00 -17:00 A high-throughput radioligand receptor binding assay for the evaluation of therapeutic candidates for the treatment of nerve agent poisoning
Fabian Springer (Munich)
- 17:00 -17:00 Screening for cardiomyocyte and fibroblast specific compound activity in a novel induced pluripotent stem cell high-content-screening platform.
Branimir Berečić (Goettingen), Gabriela L. Santos (Goettingen), Guobin Bao (Goettingen)
- 17:00 -17:00 Force-generating skeletal muscle organoids recapitulate normal and perturbed human muscle development
Malte Rinn (Goettingen)
- 17:00 -17:00 OLEAF4VALUE: Protective effects of olive (*Olea europaea* L.) leave extracts in the model organism *Caenorhabditis elegans*
Wim Wätjen (Halle (Saale))
- 17:00 –18:30** **Poster Walk and Get Together 4**
Biogenic Toxins
- Poster Self-Study 4
- Vorsitz Wim Wätjen (Halle (Saale))
- 17:00 -17:00 *C. difficile* TcdB interferes with the endolysosomal pathway by integration into the endosomal membrane
Anna Langejürgen (Hannover)
- 17:00 -17:00 *Clostridium botulinum* C2 toxin subunit C2IIa delivers enzymes with positively charged N-termini into the cytosol of mammalian cells
Sebastian Heber (Ulm)

- 17:00 -17:00 Exploring the Amiodarone Derivative Dronedarone as a Safer-to-Use Alternative for Inhibiting *Clostridioides difficile* Toxins TcdA and TcdB
Panagiotis Papatheodorou (Ulm)
- 17:00 -17:00 Repurposing an FDA-Approved Drug to Inhibit Bacterial Protein Toxins
Joscha Borho (Ulm)
- 17:00 –18:30 Poster Walk and Get Together 5**
Cardiac pharmacology
- Poster Self-Study 5
- Vorsitz Joachim Neumann (Halle)
Ali El-Armouche (Dresden)
- 17:00 -17:00 Identification of long non-coding RNAs involved in the regulation of human cardiac rhythm
Bio Maria Ghéo Idrissou (Munich)
- 17:00 -17:00 Cantharidin and sodium fluoride attenuate the negative inotropic effects of R-PIA in the isolated human atrium
Rebecca Schwarz (Halle (Saale))
- 17:00 -17:00 Lysergic acid diethylamide (LSD) has anti- β -adrenergic effects in the isolated human atrium
Hannes Jacob (Halle (Saale))
- 17:00 -17:00 Functional studies on human H₁-histamine receptors in transgenic mice
Thanh Hoai Pham (Halle (Saale))
- 17:00 -17:00 Effects of tegaserod on human cardiac 5-HT₄-serotonin receptors
Christin Hesse (Halle (Saale))
- 17:00 -17:00 Evidence for the presence of functional D₁-dopamine receptors in human atrium
Peter Grundig (Halle (Saale))
- 17:00 -17:00 Opposite effects of the hallucinogenic drugs DOI, DOM and mephedrone on force of contraction in human atrium
Ulrich Gergs (Halle (Saale))

- 17:00 -17:00 Contractile effects of glucagon in mouse atrial preparations
Franziska Schmidt (Halle (Saale))
- 17:00 -17:00 Cardioprotective actions of SGLT2 inhibitors through regulation of EndMT and fibrosis
Kevin Schmidt (Hannover)
- 17:00 -17:00 RKIP-mediated β AR signaling protects mitochondria under ischemic conditions
Theresa Brand (Würzburg)
- 17:00 -17:00 A common gene signature of the right ventricle in failing rat and human hearts
Liane Jurida (Gießen)
- 17:00 -17:00 Self-assembling human cardiac organoids for studying heart regeneration
Imran Ullah (Dresden)
- 17:00 -17:00 Rac1 activator Tiam1 is required for catecholamine-induced cardiac hypertrophy and fibroblast activation
Runfa Zhou (Mannheim)
- 17:00 –18:30** **Poster Walk and Get Together 6**
Drug transport/delivery and metabolism
- Poster Self-Study 6
- Vorsitz Martin F. Fromm (Erlangen)
- 17:00 -17:00 In vitro analysis of new putative biomarkers for OCT2/MATE-mediated renal drug-drug interactions
Arne Gessner (Erlangen), Jana Picurová (Erlangen)
- 17:00 -17:00 Applying a mouse liver perfusion model to analyze the effects of OCT1 deficiency on hepatic drug metabolis
Vincent Rönnpagel (Greifswald)
- 17:00 -17:00 Rifabutin, but not rifampicin, partially attenuates P-glycoprotein induction by concomitant P-glycoprotein inhibition through high-affinity binding to the inhibitory site
Dirk Theile (Heidelberg)

- 17:00 -17:00 *Investigating biological effects of a novel organometallic complex as potential theranostic agent*
Yasmin Borutzki (Viena)
- 17:00 -17:00 The impact of cytochrome P450 induction on coproporphyrin levels - insights from in vitro experiments
Leila Potzel (Basel)
- 17:00 -17:00 Impact of age, gender and disease on the expression of clinically relevant drug transporters and metabolizing enzymes in the human intestine
Stefan Oswald (Rostock)
- 17:00 –18:30** **Poster Walk and Get Together 7**
Carcinogenesis
- Poster Self-Study 7
- Vorsitz Wim Wätjen (Halle (Saale))
- 17:00 -17:00 Are the anticarcinogenic effects of resveratrol caused by a change in glucose metabolism?
Daniela Purps (Jena)
- 17:00 -17:00 DNA repair proficient and deficient rodent hepatocyte models to assess the genotoxicity and cytotoxicity of structurally different nitrosamines
Max J. Carlsson (Kaiserslautern)
- 17:00 -17:00 Assessment of the genotoxicity of 2-chloroethanol in vitro
Benedikt Bauer (Bonn)
- 17:00 -17:00 Impact of heme oxygenase-1 on tumor progression-related pathways in colorectal cancer cells
Tina Kostka (Kaiserslautern)
- 17:00 -17:00 Response profile of mechanosensitive transcription factors YAP1 and Nrf2 after shear stress stimulation in ovarian cancer cell lines
Martina Karasova (Vienna)
- 17:00 -17:00 Line or threshold? Evolving toxicological views on estragole
Olaf Kelber (Darmstadt)

17:00 -17:00 *Exploring pathways for mechanical-driven tumor promotion and chemoresistance in ovarian cancer cells*
Giorgia Del Favero (Vienna)

17:00 –18:30 **Poster Walk and Get Together 8** **CNS / endocrine pharmacology**

Poster Self-Study 8

Vorsitz Stefan Engeli (Greifswald)

17:00 -17:00 Inhibition of VDAC1 prevents ferroptotic cell death through the shift of energy metabolism and sustained ion homeostasis
Stephan Tang (Marburg)

17:00 –18:30 **Poster Walk and Get Together 9** **Ion channels and membrane transporters**

Poster Self-Study 9

Vorsitz Anne T. Nies (Stuttgart)

17:00 -17:00 Transgene cellular model system for human muscle-type nicotinic acetylcholine receptor $\alpha 1_2\beta 1\delta\epsilon$
Sabrina Brockmüller (Munich)

17:00 -17:00 $Ca_v1.3$ missense mutations associated with neurodevelopmental disorders lead to gain-of-function in single-channel gating
Jan Matthes (Cologne)

17:00 -17:00 Modulation of L-type calcium currents associates with changes of dendritic growth in hippocampal neurons
Stefano Lanzetti (Innsbruck)

17:00 -17:00 Genetic Variants of organic anion transporting polypeptide 1A2 (OATP1A2) show different inhibition responses to green tea catechins *in vitro*
Pascal Koczera (Aachen)

- 17:00 -17:00 A role for TRPV4 channels in surfactant protein production, secretion and recycling in the tracheal region of the lower airways?
Philipp Alt (Munich)
- 17:00 -17:00 Triagonist promotes insulin secretion through TRPM5 activation
Pascale Schreier (München)
- 17:00 -17:00 Using polypharmacology to study underexplored membrane transporters
Muhammad Rafehi (Goettingen)
- 17:00 -17:00 Ca²⁺ channel blocker verapamil is an effective potent inhibitor of novel gain-of-function *CACNA1D* variants.
Lucia Zanetti (Innsbruck)
- 17:00 -17:00 Photopharmacology of TRPC6 channels to determine channel kinetics
Maximilian Keck (Munich)
- 17:00 -17:00 Identification of the aromatic amino acids L-tryptophan, L-tyrosine and L-phenylalanine as substrates of the organic anion transporting polypeptide (OATP) 3A1 using LC-MS based metabolomics
Daniela B. Surrer (Erlangen)
- 17:00 -17:00 Orai1 channels in platelets contribute to Ca²⁺ entry and aggregation evoked by depletion of IP₃- and NAADP-sensitive Ca²⁺ stores
Roger Ottenheijm (Heidelberg)
- 17:00 -17:00 OCaR1 confers exocytotic vesicles an autoregulatory competence to prevent Ca²⁺ release, exocytosis and pancreatic tissue damage
Roger Ottenheijm (Heidelberg)
- 17:00 -17:00 Structural and functional interaction of IRAG1 with IP₃R1
Robert Peter (Regensburg)
- 17:00 -17:00 The role of OCaR2 proteins in NAADP-evoked Ca²⁺ induced Ca²⁺ release in cardiomyocytes
Michelle Victoria Malz (Heidelberg)
- 17:00 -17:00 Contribution of Ryanodine-receptor-mediated calcium release for mitochondrial dysfunction in ferroptosis
Zohreh Fattahi (Marburg)

- 17:00 -17:00 Targeted Mutagenesis of Negatively Charged Amino Acids Outlining the Substrate Translocation Pathway within the Human Organic Cation Transporter 3
Kyra-Elisa Redeker (Goettingen)
- 17:00 -17:00 The role of NAADP, TPC channels and OCaR2 proteins in antigen-evoked Ca^{2+} signaling in mast cells
Merima Bukva (Heidelberg)
- 17:00 -17:00 Characterization of MDMA derivative 1,3-Benzodioxolylbutanamine (BDB) and its structural analogs.
Nina Kastner (Vienna)
- 17:00 -17:00 Comparison of Efficacy of Baculovirus Expression System in Insect and Mammalian Cell Lines
Seung-Heon Lee (Mühlheim am Main)
- 17:00 -17:00 Expression of Cre recombinase leads to early alterations of Ca^{2+} dynamics in ventricular mouse cardiomyocytes.
Janos Liffers (Münster)
- 17:00 -17:00 Endolysosomal cation channel TRPML1 - a central regulator of cancer cell hallmarks
Karin Bartel (Munich)
- 17:00 -17:00 Drug screening reveals inhibitors of NaV1.7 sodium channels and a pain-relevant NaV1.7 variant
Ralf Hausmann (Aachen)
- 17:00 -17:00 CaVb1 Modulates T Cell Expansion and Apoptosis, Decoupled from Voltage-Gated Ca^{2+} Channel Activity
Serap Erdogmus (Regensburg)
- 17:00 -17:00 Pharmacological activation of TRPV2 triggers mast cell degranulation
Andrea Paulig (Leipzig)
- 17:00 -17:00 Identification of biopterins as novel substrates of the organic anion transporter OAT2
Charlotte Kölz (Stuttgart)

- 17:00 -17:00 Ca²⁺ and Na⁺ Release Measurements from Two-Pore Channels residing in their natural endolysosomal Membrane Environments
Robert Theodor Mallmann (Freiburg im Breisgau)
- 17:00 -17:00 HCN pacemaker channels in immune cells
Chiara Piantoni (Planegg-Martinsried)
- 17:00 -17:00 A potential role of HCN channel hysteresis in sinoatrial node cells
Daniela Kruck (Planegg-Martinsried)
- 17:00 -17:00 TRPV4 and TRPM2 mediate toxicant-induced pulmonary barrier dysfunction
Lena Schaller (Munich)
- 17:00 -17:00 TRPM7 affects Ca²⁺ signalling in human T cells
Anna Madlmayr (Linz)
- 17:00 -17:00 EF-hand phosphorylation site S1475 is involved in modulation of Ca_v1.3 mediated whole-cell and single-channel currents
Jan Matthes (Cologne)
- 17:00 -17:00 Selective pharmacological inhibition of TRPM6 and TRPM7
Anna Rössig (Munich)
- 17:00 -17:00 Molecular basis for TRPM7 inhibition by intracellular magnesium
Eva Schmückert (Munich)
- 17:00 -17:00 Targeting TRPM7 to modulate chronic myeloid leukemia
Birgit Höger (Linz)
- 17:00 -17:00 Loss-of-lysosome-associated-TPC2 confers resistance against ferroptosis
Victoria Gell (Munich)
- 17:00 -17:00 NCX1 expression level influences proarrhythmogenic spontaneous Ca²⁺ releases in CREM-IbΔC-X transgenic mice, a model of atrial fibrillation
Max Gieske (Münster)
- 17:00 -17:00 TRPA1 engages a non-canonical chemotherapy defense program by phosphorylation independent activation of MARCKS
Jona Sonntag (Leipzig)

17:00 -17:00

Characterization of a Photoswitchable GLUT1 Inhibitor
Sonja Tripp (Erlangen)

17:00 –18:30

Poster Walk and Get Together 10 Computational Toxicology

Poster Self-Study 10

17:00 -17:00

Selective HDAC8 inhibition for haematological cancers: A step towards effective and non-toxic inhibitor discovery using computational techniques
Samima Khatun (Kolkata)

17:00 -17:00

The assessment of non-genotoxic carcinogenicity in pesticides using in silico tools
James Firman (Liverpool)

17:00 -17:00

AI-based carcinogenic risk evaluation for human exposure
Helga Stopper (Würzburg)

17:00 -17:00

Consolidated octanol/water partition coefficients: Combining multiple estimates from different methods to reduce uncertainties in log Kow
Monika Nendza (Luhnstedt)

17:00 -17:00

A New OECD Guidance Document for Reporting Quantitative Structure-Activity Relationship (QSAR) Models
Tina Hofmaier (Vienna)

17:00 -17:00

A non-clinical and clinical IUCLID database for 530 pharmaceuticals
Jochen vom Brocke (Espoo)

17:00 –18:30

Poster Walk and Get Together 11 G-protein coupled receptors I

Poster Self-Study 11

Vorsitz

Andreas Bock (Leipzig)
Moritz Bünemann (Marburg)

- 17:00 -17:00 EA 575® Has an Inhibitory Effect on the Signalling Cascade of Adenosine Receptor A_{2B}
Matthias Hufnagel (Niederdorfelden)
- 17:00 -17:00 In situ visualization of opioid and cannabinoid drug effects using phosphosite-specific GPCR antibodies
Sebastian Fritzwanker (Jena)
- 17:00 -17:00 The molecular basis for GRK/arrestin-mediated regulation of adenosine A1 receptor
Amod Godbole (Jena)
- 17:00 -17:00 Rapid elucidation of agonist-driven regulation of the NK1 receptor using a novel GPCR phosphorylation immunoassay
Nina Kathleen Blum (Jena)
- 17:00 -17:00 Investigating the carboxy-terminal phosphorylation of the human β_1 -adrenoceptor using phosphosite-specific antibodies
Christopher Thomas Luchmann (Jena)
- 17:00 -17:00 The Biological Relevance of On-Target Residence Times of Gq-Selective Cyclic Peptide Inhibitors
Lars Jürgenliemke (Bonn)
- 17:00 -17:00 Investigating the carboxy-terminal phosphorylation of the BB2 bombesin receptor using phospho-site-specific antibodies
Dominik Freund (Jena)
- 17:00 -17:00 The distinct roles of the GRK isoforms for the Endothelin-1 A receptor (ETAR) in ovarian cancer
Mona Reichel (Jena)
- 17:00 -17:00 The impact of odorants as pharmaceuticals
Lea Weber (Witten)
- 17:00 -17:00 Targeting G α i2 in neutrophils protects from myocardial ischemia reperfusion injury
Ragini Kushwaha (Tübingen)
- 17:00 -17:00 *Arrestin bias* : signaling or trafficking mechanism?
Corinna Weiler (Bonn), Sergi Bravo (Bonn)

17:00 -17:00 The intracellular loop 3 of muscarinic acetylcholine receptor M2 and M4
determines the molecular acrobatics of β -arrestin2
Jenny C. Filor (Jena)

17:00 -17:00 β_1 -adrenoceptor phosphorylation in human heart
Andrea Ahles (Munich)

18:30 –19:30 General Meeting GT

Liebig HS

18:30 –19:30 General Meeting DGP

Wieland HS

18:30 –19:30 General Meeting DGKliPha

Butenandt HS

19:45 –21:00 Nachsitzung GT

Liebig HS

**20:00 –21:30 Forum Junge Wissenschaft
Social Evening**

Wieland HS

**20:30 –22:00 AK-Meeting
Sitzung der Arbeitsgemeinschaft ordentlicher
Professoren**

Social programme

14.03.2024

08:00 –09:00 **Short talks Toxicology 5** **Carcinogenicity**

Liebig HS

Vorsitz

Sabine Plöttner (Bochum)

Henning Hintzsche (Bonn)

08:00 –08:15

The impact of nitrite on pork meat and heme toxicity

Tina Kostka (Kaiserslautern)

08:15 –08:30

Sensitivity of human liver cell models in comet assay-based genotoxicity testing of N-nitrosamines

Michelle Djuari (Hannover)

08:30 –08:45

Studies on the genotoxic potential and the DNA damage response of estragole and its metabolite 1"-hydroxyestragole in liver cells

Gabriel Ackermann (Kaiserslautern)

08:45 –09:00

Transcription-coupled nucleotide excision repair protects against the detrimental effects induced by methyleugenol-derived DNA adducts

Caroline Quarz (Kaiserslautern)

08:00 –11:45 **Intern: Meeting**

E0.013

08:30 –10:00 **Short talks 7** **Young Investigator Lectures**

Wieland HS

Vorsitz

Helga Stopper (Würzburg)

Susanne Lutz (Göttingen)

08:30 –08:45

Detrimental effects of spatio-temporal ROS formation and lipid peroxidation triggered by dietary heme in intestinal epithelial cell

Simon Wittmann (Kaiserslautern)

- 08:45 -09:00 Porcine thyroid follicles as an in vitro tool in chemical testing for thyroid hormone system disruptors
Lars Dahmen (Berlin)
- 09:00 -09:15 Adipocyte adipose triglyceride lipase as a possible pharmacological target in myocardial infarction
Heba Zabri (Düsseldorf)
- 09:15 -09:30 GRK specificity as the key determinant for a GPCR's potential in biased agonism
Edda Matthees (Jena)
- 09:30 -09:45 Generation of an *ABCB1/ABCG2* knockout platform for substrate characterization using CRISPR/Cas9-genome editing
Anne Kasten (Kiel)
- 09:45 -10:00 Targeting cellular kinases to prevent Influenza A virus infection utilizing encapsulated kinase inhibitors
Laura Klement (Jena)

08:30 –10:00 Short talks Pharmacology 8 Nuclear receptors, enzymes and other targets

Butenandt HS

Vorsitz

Niels Voigt (Göttingen)

Dagmar Meyer zu Heringdorf (Frankfurt am Main)

- 08:30 -08:45 Androgen signaling promotes nuclear actin assembly at androgen receptors for transcriptional droplet formation
Robert Grosse (Freiburg im Breisgau)

- 08:45 -09:00 Deletion of adipocyte NOS3 potentiates high fat diet-induced hypertension and vascular remodeling via chemerin
Andy Man (Mainz)

- 09:00 -09:15 Activation of the non-canonical NLRP3 inflammasome pathway in atrial cardiomyocytes and patients with atrial fibrillation
Pascal Martsch (Essen)

- 09:15 -09:30 Pharmacological characterization of the interaction between human farnesyltransferase variants and the GTPase Ras
Jessica Jasmin Schott (Witten)
- 09:30 -09:45 Adipocyte eNOS is involved in the crosstalk between adipose tissues and liver
Yawen Zhou (Mainz)
- 09:45 -10:00 Versican"s role in cardiac remodeling after myocardial infarction
Lennart Gebert (Düsseldorf)

08:30 –10:00 Short talks Pharmacology 9 Disease models, drug development

Bayer HS

Vorsitz Matthias Schwab (Stuttgart)

- 08:45 -09:00 BBLN is up-regulated in hearts of cyanotic patients with tetralogy of Fallot and triggers cardiac dysfunction in transgenic mice
Andreas Langer (Zurich)
- 09:00 -09:15 The sGC activator Riociguat alters pro-inflammatory activation of BV2 microglial cells
Elisabetta De Iaco (Marburg)
- 09:15 -09:30 Dimethylglyoxal: a reactive pyruvate metabolite that mediates neurological complications of diabetes
Riccardo Costalunga (Lübeck)
- 09:30 -09:45 Uncovering enhanced antisense oligonucleotide uptake in injured cardiomyocytes through high-resolution miRNA activity sensing
Petros Avramopoulos (Munich)
- 09:45 -10:00 Human Multi-Tissue Organoids as an Advanced Teratogenicity Model
Robert Zweigerdt (Hannover)

09:00 –10:00

Short talks Toxicology 6 Biogenic Toxins

Liebig HS

Vorsitz

Elke Richling (Kaiserslautern)

Ralf Gerhard ()

09:00 –09:15

Tyrosine-modifying glycosylation by *Yersinia* effectors

Klaus Aktories (Freiburg im Breisgau)

09:15 –09:30

Identification and characterization of an endogenous human protein, α 1-antitrypsin, as a novel inhibitor of the *Bordetella Pertussis* toxin

Stefanie Lietz (Ulm)

09:30 –09:45

Immunomodulatory effects of *Alternaria* mycotoxins: alterperyleneol and altertoxin I as novel immunosuppressive compounds

Francesco Crudo (Vienna)

09:45 –10:00

Comparison of the effects of Genistein and Daidzein on the plasma metabolome in rats

Hennicke Kamp (Berlin)

10:00 –11:30

Meeting Beratungskommission GT

D 0.001

10:15 –11:45

Symposium 3 Chemicals Strategy for Sustainability (CSS) and Generic approach to risk management (GRA)

Liebig HS

Vorsitz

Michael Werner (Wöllstein)

Philip Marx-Stölting (Berlin)

10:15 –10:20

Opening Remarks

Michael Werner (Wöllstein), Philip Marx-Stölting (Berlin)

10:20 -10:40	Implementation of CSS/GRA from an authority point of view Thomas Jakl (Wien)
10:40 -11:00	CSS/GRA from an academia point of view Jan G. Hengstler (Dortmund)
11:00 -11:20	Challenges, consequences and strategies to comply with CSS/GRA - an industry perspective Ludger Grunwald (Köln)
11:20 -11:45	Panel discussion Michael Werner (Wöllstein), Ludger Grunwald (Köln), Jan G. Hengstler (Dortmund), Thomas Jakl (Wien), Philip Marx-Stölting (Berlin)
10:15 –11:45	Symposium 4 Cell-based therapies: “Living drugs”
Wieland HS	
Vorsitz	Michael von Bergwelt (München) Stefan Endres (München)
10:15 -10:37	Cell-based therapies: Basics and strategies for optimization Sebastian Kobold (München)
10:37 -10:59	CAR-T cell therapies: Translation and clinical perspective Marion Subklewe (München)
10:59 -11:22	Adoptive T-cell therapy for infectious diseases Dirk Busch (München)
11:22 -11:45	Development and manufacturing of CAR T and CAR NK cells: Pushing the boundaries in cancer treatment and beyond Ulrike Köhl (Leipzig)

10:15 –11:45

Symposium 5 Joint Symposium SFB TRR 152 | Molecular Pharmacology of Transient Receptor Potential

Butenandt HS

Vorsitz

Michael Schaefer (Leipzig)

Thomas Gudermann (München)

10:15 -10:37

Structural pharmacology of thermosensitive TRP channels

Arthur Neuberger (New York, NY)

10:37 -10:59

Cellular regulation of Mg²⁺ uptake by TRPM7 channel modules

Loren Runnels (Piscataway, NJ)

10:59 -11:22

Evolution of pharmacological tools: Targeting TRP channels with small molecules

Kerstin Hill (Leipzig)

11:22 -11:45

New pharmacological tools targeting kinase-coupled TRP channels

Vladimir Chubanov (Munich)

10:15 –11:45

Forum Junge Wissenschaft Navigating the Nuances: A Deep Dive into Good Scientific Practice

Bayer HS

Vorsitz

Hagen Nicolaus (Erlangen)

Wahram Andrikyan (Erlangen)

10:15 -10:45

How Naunyn-Schmiedeberg's Archives of Pharmacology is dealing with fake papers

Roland Seifert (Hannover)

10:45 -11:15

Challenges of hijacked journals in the scientific literature

Anna Abalkina (Berlin)

11:15 -11:45

Taxol from Panda Bears? How a great idea turned into bad science

Hjördis Czesnick (Berlin), Klaus Gärditz (Bonn)

11:45 –12:15

**Mitgliederversammlung
Forum Junge Wissenschaft**

Bayer HS

11:45 –12:30

**DGPT
Präsidiumssitzung**

D 0.001

12:15 –13:45

**Poster Walk and Get Together 12
G-protein coupled receptors II**

Poster Self-Study 12

Vorsitz

Michael Mederos y Schnitzler (Munich)

Thomas Wieland (Mannheim)

12:15 –12:15

FRET-based neurotensin 1 receptor conformation sensor to study under cell-free conditions

Uurtuya Hochban (Marburg)

12:15 –12:15

Investigating and modulating κ -Opioid Receptor G-protein signaling

Ana Lechuga (Innsbruck)

12:15 –12:15

Investigating the mechanism of arrestin co-internalization with GPCRs.

Sebastian Ernst (Marburg)

12:15 –12:15

FRET-based FP receptor conformational sensor reveals conformational diversity and ligand-specific conformational memory of the FP receptor.

Michaela Ulrich (Marburg)

12:15 –12:15

High-resolution crystal structure of NDPK C and hetero-oligomerisation with other isoforms

Santosh Lomada (Mannheim)

12:15 –12:15

Role of pH and phosphate stability for the formation of GPCR-arrestin complexes

Cornelius Krasel (Marburg)

- 12:15 -12:15 Interaction of fatty acids with the adenosine receptor mediated production of interleukin-8 and interleukin-1 β in a human mast cell line
Sujeepan Pannerselvam (Bonn)
- 12:15 -12:15 Identifying G protein-coupled receptors involved in adipose tissue function using the innovative RNA-seq database FATTLAS
Isabell Kaczmarek (Leipzig)
- 12:15 -12:15 Exploring the CaSR as a potential drug target in hematopoietic stem and progenitor cells
Marlene Fischer (Vienna)
- 12:15 -12:15 Structural determinants of Dopamine Receptor Agonist selectivity
Olga Trovato (Innsbruck)
- 12:15 -12:15 Uncovering Biased Signaling Pathways of AT1R: A Comprehensive Molecular and Functional Evaluation
Julia Fender (Würzburg)
- 12:15 -12:15 Differences of DREADD signaling preferences compared to wild type receptors
Mitja Amon Posch (Innsbruck)
- 12:15 -12:15 Investigating voltage effect on dopamine D1 receptor using the receptor-GRK2-interaction
Taylan Yazgan (Marburg)

12:15 –13:45

Poster Walk and Get Together 13 Pharmacoepidemiology and drug safety

Poster Self-Study 13

Vorsitz Bertold Renner (Dresden)

12:15 -12:15 Rescue therapy for supratherapeutic concentrations of calcineurin inhibitors using potent cytochrome P450 inducers
Seth Duwor (Zurich)

- 12:15 -12:15 Pharmaceutical intervention to increase drug treatment safety in polymedicated patients in an acute geriatric ward of a university hospital in Germany
Jan Matthes (Cologne)
- 12:15 -12:15 Study of antipsychotics medication of schizophrenia patients with stable neuroleptic treatment in outpatient care
Jens-Uwe Peter (Rüdersdorf)
- 12:15 -12:15 Melatonin – food supplement or drug: analytical method validation and first data from porcini mushrooms
Reinhard Oertel (Dresden)
- 12:15 -12:15 Clinical-pharmacological drug information center of Hannover Medical School: experiences and analysis from a tertiary care university hospital
Johannes Heck (Hannover)
- 12:15 -12:15 The symptomatology of medication error caused ADRs leading to emergency department visits
Justyna Wozniak (Aachen)
- 12:15 -12:15 Pseudo-worsening of renal function due to inhibition of transporter-mediated renal secretion of creatinine: Overview of perpetrating drugs and insights from US, UK and German Summaries of Product Characteristics (SmPCs)
Michael Sponfeldner (Erlangen)
- 12:15 -12:15 Individual Use of Self-medication and other Remedies in COVID-19 Outpatients in Western-Pomerania
Svea Stüdemann (Greifswald)
- 12:15 -12:15 Intersecting Pathways: Amphetamines and Opioids in the Landscape of Chronic Pain Therapy
Maria Antonia Balan (Targu Mures)
- 12:15 -12:15 Participative view on benefit/risk in antidepressive medication: comparison of patients' awareness in a geriatric vs. psychiatric hospital
Jason Radermacher (Aachen)

- 12:15 -12:15 Drug-associated anaphylactic reactions in Germany: A complementary descriptive analysis of cases from the Anaphylaxis-Registry and spontaneous reports from the European Adverse Reaction Database (EudraVigilance)
Patrick Christ (Bonn)
- 12:15 -12:15 Analysis of spontaneous adverse drug reaction reports related to fluoroquinolones before and after regulatory restrictions
Diana Dubrall (Bonn)
- 12:15 -12:15 Are medication errors in oral antitumor therapy comparable between data from the randomized AMBORA trial and clinical routine?
Lisa Cuba (Erlangen)
- 12:15 -12:15 Medication safety in paediatric oncology: Benefit of integrating a clinical pharmacist into an interprofessional treatment team
Phyllis Lensker (Erlangen)

12:15 –13:45 Poster Walk and Get Together 14 General Toxicology

Poster Self-Study 14

- 12:15 -12:15 Exposure of Vegans, Omnivores and Strict Raw Food Eaters to Fatty Acid Esters of Glycidol and 2-/3-Monochloropropanediol (2-/3-MCPD)
Bernhard Monien (Berlin)
- 12:15 -12:15 The food supplement melatonin impacts biosynthesis of sex (pro)hormones in steroidogenic H295R cells
Olga Liebe (Würzburg)
- 12:15 -12:15 Preliminary Safety Evaluation of Hydroethanolic Seed Extract of *Entada gigas* (Linn.) Fawc. and Rendle (Fabaceae) using *Allium cepa* and Brine Shrimp Lethality Tests
Olanrewaju Salako (Lagos)
- 12:15 -12:15 Detection and quantification of two polymer particles in rat tissues after inhalation exposure
Emanoela Tha (Ludwigshafen)

- 12:15 -12:15 Models for Detection of *In vitro* Foreign Body Reaction in Biocompatibility Testing of Medical Devices
Jan Sündermann (Hannover)
- 12:15 -12:15 Pharmacodynamic assessment of carfentanil actions at μ opioid receptor (μ OR) in HEK293 cells
Franziska Endt (Munich)
- 12:15 -12:15 Toxicological Evaluation of Halogenated Electrolysis Products by Upcycling of Halogenated Waste Products
Lisa Davidson (Kaiserslautern), Beata Klicova (Kaiserslautern)
- 12:15 -12:15 Reduction of toxic pollutants in water from sealed surfaces through microalgae cultivation
Edmund Maser (Kiel)
- 12:15 -12:15 The *C. elegans* ortholog of human SELENBP1, SEMO-1, is a novel copper-dependent methanethiol oxidase (MTO), mediating selective stress resistance
Verena Alexia Ohse (Jena)
- 12:15 -12:15 The impact of drug candidates on sulfur mustard-induced senescence in human mesenchymal stem cells
Adrian Neu (Munich)
- 12:15 -12:15 Follow-up of GSTM1, GSTT1, and NAT2 genotyped patients with knee or hip replacement
Klaus Golka (Dortmund), Selahattin Bozkurt (Menden)
- 12:15 -12:15 Characterization of Healthy Bone Marrow-Derived Mesenchymal Stromal Cells after Cytotoxic Intervention with Antineoplastic Substances
Bo Scherer (Düsseldorf)
- 12:15 -12:15 Role of the Rho-GTPase RAC1 in the DNA-PK-mediated repair of topoisomerase II poison-induced DNA double-strand breaks
Aristea Siomou (Düsseldorf)
- 12:15 -12:15 SEMI-1 is a neuronal selenium-binding protein 1 ortholog, modulating stress resistance and lifespan in *C. elegans*
Weiye Gong (Jena)

- 12:15 -12:15 Sulfation of the mycotoxin alternariol: an overlooked metabolic pathway with underestimated toxicological implications
Eszter Borsos (Vienna)
- 12:15 -12:15 *In vitro* Untargeted Metabolomics as a Tool for Mechanistic Studies
Yannik Schermer (Kaiserslautern)
- 12:15 -12:15 Cytochrome P450 mediated hydroxylation of 2,5-dimethylfuran
Jonas Appel (Kaiserslautern)
- 12:15 -12:15 The inhibition of enzymes by sulfur mustard as the foundation of a rapid test
Daniel Barre (Munich)
- 12:15 -12:15 Multifunctional peptide nanocarrier for targeted reduction of breast cancer metastasis in bone and osteolysis
Nicole Stadler (Ulm)
- 12:15 -12:15 Detrimental effects of high zinc sulfate concentrations on genome stability, chromatin integrity, tight junction proteins, and lncRNA expression
Stella Marie Reamon-Buettner (Hannover)
- 12:15 -12:15 Triazole fungicides and thyroid disruption *in vivo* and *in vitro*
Marize de Lourdes Marzo Solano (Berlin)
- 12:15 -12:15 CAMPHORQUINONE PROMOTES NUCLEAR TRANSLOCATION OF NRF2 IN ORAL KERATINOCYTES
Joachim Volk (Hannover)
- 12:15 -12:15 Comparative metabolism of 2-monochloropropane-1,3-diol (2-MCPD) and 3-monochloropropane-1,2-diol (3-MCPD) in rats
Thorsten Henning (Berlin)
- 12:15 -12:15 Tissue distribution of per- and polyfluoroalkyl substances (PFAS) in wild boars from Berlin and Brandenburg
Helena Junk (Berlin)
- 12:15 -12:15 *C. elegans* as a model to study the effects of mixtures of anti-inflammatory drugs in the environment
Felix Glahn (Halle (Saale))

12:15 –13:45

Poster Walk and Get Together 15 Immunopharmacology / inflammation / anti- infectives

Poster Self-Study 15

Vorsitz

Detlef Neumann (Hannover)

Michael Kracht (Gießen)

12:15 -12:15

DYRK1B/STAT3 SIGNALING AS A NOVEL KEY REGULATOR OF
INFLAMMATORY PROCESSES IN LEUKOCYTES

Sarah Ciurus (Frankfurt am Main)

12:15 -12:15

Effect of advanced age and renally eliminated co-medication on plasma concentrations of Paxlovid® (nirmatrelvir-ritonavir) in patients treated for COVID-19

Corinna Regina Böger (Hannover)

12:15 -12:15

Compound screening identifies Nitroxolin as a novel inhibitor of NLRP3-dependent pyroptosis

Christina Mäder (Leipzig)

12:15 -12:15

Mechanisms of transcript buffering in inflammation

Emmanuel Addo (Gießen)

12:15 -12:15

Unbiased identification of the Interleukin-1 α -induced secretome

Jasmin Priester (Gießen)

12:15 -12:15

IL-2 receptor signaling capacity is cell-specifically reduced in high-dose IL-2-stimulated PBMCs

Charline Sommer (Hannover)

12:15 -12:15

Toll-like receptor 2 - the role of an innate immune receptor in neuronal excitability

Julian Fenkart (Innsbruck)

12:15 -12:15

Assessment of inflammatory markers in polymyalgia rheumatica (PMR) and giant cell arteritis (GCA)

Stephanie Seidlberger (Innsbruck)

- 12:15 -12:15 Microbial metabolites as potential mediators of colorectal cancer organoid growth and immunomodulation
Sylvia K. Neef (Stuttgart)
- 12:15 -12:15 Insight into Function and Pharmacology of the Enzyme-Coupled TRPM7 channel
Max Lechner (Munich)
- 12:15 -12:15 Development of novel cGAMP analogues for efficient activation of STING in lung macrophages
Jahongir Nabiev (Munich)
- 12:15 -12:15 Direct neuronal protection by the protease-activated receptor PAR4 antagonist ML354 after experimental stroke in mice
Anke Fender (Essen)
- 12:15 -12:15 Ertugliflozin ameliorates acetic acid-induced ulcerative colitis by regulating the interplay between M1/M2 macrophage polarization in rats.
Marina R. Fouad (Cairo)
- 12:15 -12:15 The role of autophagy and the related ER-phagy in coronavirus infected cells
Franziska Maria Dort (Gießen)
- 12:15 -12:15 Establishment of CRISPR/Cas9-based systems for synthetic activation and inducible knockdown of inflammatory cytokine genes
Helke Peppler (Gießen)
- 12:15 -12:15 The dynamic proximity-dependent interactome of the nuclear-cap-binding protein 1 (NCBP1) reveals its general and specific roles for inflammatory gene expression
Johanna Meier-Soelch (Gießen)
- 12:15 -12:15 Decreased aortic immune cell infiltration lowers the incidence of aortic ruptures in *ApoE/Has3*-deficient mice
Maria Grandoch (Düsseldorf)
- 12:15 -12:15 Characterisation of pharmacological phenotypes of CDK12/13 inhibition
Franziska Charlotte Schmidt (Gießen)

- 12:15 -12:15 The role of IL-7 for the thymocyte development and T cell homeostasis in SLy1^{KO} mice
Christin Nothnagel (Tübingen)
- 12:15 -12:15 p53-dependent and -independent functions of SLy1 in NK cells for tumor clearance
Lisa Rebmann (Tübingen)
- 12:15 -12:15 Influence of Gai-deficiency on expression and localization of non-canonical G protein signaling modulators
Agnes Schröter (Tübingen)
- 12:15 -12:15 The role of TRPM7-kinase in a Multiple Sclerosis mouse model
Katharina Jacob (Munich)
- 12:15 -12:15 Calcineurin inhibitor Pimecrolimus reduced activity of T cells in human precision-cut intestinal slices of IBD patients *ex vivo*
Klaudia Grieger (Hannover)
- 12:15 -12:15 The emerging roles of the proteolytic and non-proteolytic activity of ADAM proteases as a therapeutic and prognostic target in infectious diseases
Ahmad Aljohmani (Homburg)

12:15 –13:45 Poster Walk and Get Together 16 Pharmacogenomics and personalized medicine

Poster Self-Study 16

- Vorsitz Matthias Schwab (Stuttgart)
Julia Stingl (Aachen)
- 12:15 -12:15 Pharmacogenetics in Clinical Practice: A Retrospective Analysis of Medication Prescriptions
Roman Tremmel (Stuttgart), Filippa Schreeck (Stuttgart)
- 12:15 -12:15 Perceptions of Community Pharmacists Towards Pharmacogenomics - A retrospective study in Uganda
Moses Mukalazi (Iganga)

- 12:15 -12:15 Interactions of the breast cancer drug tamoxifen and its liver-derived metabolites with the human gut microbiota
Mathias Haag (Stuttgart)
- 12:15 -12:15 Variability of the dietary-derived CYP2D6 activity marker solanidine in vivo
Julian Peter Müller (Aachen)
- 12:15 -12:15 Solanidine as CYP2D6 activity marker in a multi-medicated, geriatric cohort
Jens Andreas Sarömba (Aachen)
- 12:15 -12:15 Sex and CYP2D6 but not OCT1 polymorphisms affect berberine (*goldenseal*) kinetics in human
Jonas Blöcher (Greifswald)

12:15 –13:45 Poster Walk and Get Together 17 Inhalation Toxicology

Poster Self-Study 17

- 12:15 -12:15 Inhalation Toxicity Study of the repurposed Cystein Cathepsin Inhibitor Aloxistatin (E-64D)
Dorothee Winterberg (Hannover)
- 12:15 -12:15 Response of innate immune cells and alveolar type 1 cell line to 4,4'-methylenediphenyl diisocyanate
Udo Bock (Trier)

12:15 –13:45 Poster Walk and Get Together 18 Nuclear receptors, enzymes and other targets

Poster Self-Study 18

- Vorsitz
Anne Dueck (Munich)
Daniela Yildiz (Saarbrücken)
- 12:15 -12:15 ICER interacts specifically with XIAP in human cells
Dirk Hofmann (Münster)

- 12:15 -12:15 Inhibition of farnesylation results in decreased matrix-vesicle mediated mineralization
Tim Bürgel (Witten)
- 12:15 -12:15 Characterization of PycC activity in 293 cells
Richard Kromke (Hannover)
- 12:15 -12:15 The small molecule activator of PP2A (SMAP) DT-061 has an influence on the B56 α -dependent PP2A-activity in atria
Christina Hermes (Münster)

12:15 –13:45 Poster Walk and Get Together 19 Pharmacokinetics and PK/PD modelling

Poster Self-Study 19

- Vorsitz Mladen V. Tzvetkov ()
- 12:15 -12:15 Understanding adefovir pharmacokinetics as component of a transporter phenotyping cocktail
Qian Dong (Cologne)
- 12:15 -12:15 PBTk, a new era in mixture risk assessment
Yemurai Musengi (Berlin)
- 12:15 -12:15 A semi-mechanistic population pharmacokinetic model of nescapine in healthy subjects considering hepatic first-pass extraction and *CYP2C9* genotypes
Zhendong Chen (Cologne)
- 12:15 -12:15 Reduced oxidative phosphorylation mediates protection of neuronal cells against oxidative stress in models of ferroptosis
Cornelia Volkmann (Marburg)
- 12:15 -12:15 Interaction of the atypical tetracyclines chelocardin and amidochelocardin with renal drug transporters
Katharina Rox (Braunschweig)

12:15 –13:45

Poster Walk and Get Together 20 Mixture Toxicology

Poster Self-Study 20

- 12:15 -12:15 Genotoxicity of mixtures of different pyrrolizidine alkaloids in vitro
Markus Heinen (Bonn)
- 12:15 -12:15 Mixture toxicity of perfluoroalkyl substances (PFAS) in Zebrafish larvae
and HepG2 cells
Shuhan Wang (Bonn)
- 12:15 -12:15 Mixture toxicity of bisphenols in zebrafish larvae
Ruiqi Chen (Bonn)
- 12:15 -12:15 Evaluating the impact of the *Alternaria* mycotoxin tenuazonic acid on the
estrogenic properties of alternariol and zearalenone
Florian Call (Vienna)
- 12:15 -12:15 Opposite effects of food mycotoxins alternariol and deoxynivalenol on
the immunomodulatory properties of anticancer drug oxaliplatin
Judith Gufler (Vienna)
- 12:15 -12:15 Specific genotoxic effects of benzo[a]pyrene are enhanced by bicyclic
aromatic amines in RT4 urothelial cells
Sabine Plöttner (Bochum)
- 12:15 -12:15 Effect of co-exposure of the irritant sodium dodecyl sulfate on the
upregulation of costimulatory and adhesion molecules on dendritic cells
by skin sensitizers
Osmond Aruna (Trier), Sabrina Schmidt (Trier)
- 12:15 -12:15 Unravelling the Complexity: Elucidation of the Antiestrogenic and
Genotoxic Potential of a Complex *Alternaria* Mycotoxin Extract through
Toxicity-guided Fractionation and Mixture Toxicology
Vanessa Partsch (Vienna)

12:15 –13:45 **Poster Walk and Get Together 21** **Receptor tyrosine kinases**

Poster Self-Study 21

Vorsitz Bernhard Rauch (Oldenburg)

12:15 -12:15 HDAC Inhibitor entinostat induces the EGF receptor (EGFR) and its ligands in gastric cancer cells, providing a rationale for combination therapies

Tamara Zenz (Leipzig)

12:15 -12:15 Vesicle-Associated Actin Assembly by Formins Promotes TGF β -Induced ANGPTL4 Trafficking, Secretion and Cell Invasion

Dennis Frank (Freiburg im Breisgau)

12:15 –13:45 **Poster Walk and Get Together 22** **Pharmacological education**

Poster Self-Study 22

Vorsitz Bertold Renner (Dresden)

12:15 -12:15 Severe sleepiness of a primary school boy during the coronavirus pandemic

Klaus Golka (Dortmund)

12:15 -12:15 Using long-read sequencing to shed light on complex allele-specific loci

Lison Lemoine (Munich)

12:15 -12:15 E-Pharm: Transforming Pharmacological Education for the Digital Era

Patrick Lechsner (Targu Mures)

12:15 -12:15 UMmedis - an interactive tool for learning pharmacology

Christine Bittner (Mainz)

12:15 –13:45 **Poster Walk and Get Together 23** **Regulatory Toxicology**

Poster Self-Study 23

- 12:15 -12:15 Non-intentionally added substances (NIAS) in food contact material (FCM)
- evaluation of consumer safety
Sebastian Zellmer (Berlin)
- 12:15 -12:15 Dermal absorption in regulatory toxicology - new perspectives
Korinna Wend (Berlin)
- 12:15 -12:15 Regulation of PFAS in the novel German Drinking Water Ordinance
Alexander Eckhardt (Bad Elster)
- 12:15 -12:15 Non-clinical Safety Assessment of Angiotensin 1-7
Susanne Thun (Aachen)
- 12:15 -12:15 Assessment of the Sensitivity of the in vitro Micronucleus Assay Using
Different Protocols considering the Cell Cycle
Nina Hambruch (Ludwigshafen)
- 12:15 -12:15 Requirements for suitable human biomonitoring parameters - DFG-
working group "Assessment Values in Biological Material" of the
Permanent Senate Commission for the Investigation of Health Hazards of
Chemical Compounds in the Work Area
Wobbeke Weistenhöfer (Erlangen)
- 12:15 -12:15 Identification of endocrine disruptors for the thyroid pathway using the
ECETOC testing and assessment scheme (Thyroid-NDT-TAS)
Stephanie Melching-Kollmuss (Limburgerhof)
- 12:15 -12:15 Hazard characterisation for Bisphenol A
Thomas Tietz (Berlin)
- 12:15 -12:15 Integration of T cell proliferation into Allergy Test for Tropomyosin in
Novel Foods
Matthias Peiser (Berlin)
- 12:15 -12:15 Toxicological risk assessment of titanium aluminum vanadium alloy-
based implants
Charlotte Laupheimer (Aarburg)

12:15 –13:45

Poster Walk and Get Together 24 **Signal transduction and second messengers**

Poster Self-Study 24

Vorsitz

Michael Russwurm (Potsdam)

Joachim P. Schmitt (Düsseldorf)

12:15 -12:15

Insulin release from beta cells: triggered by or loosely coupled to Ca_v channel activity?

Carolin Zosel (Leipzig)

12:15 -12:15

Development of red-shifted FRET-based cAMP sensors

Tabea Kressmann (Munich)

12:15 -12:15

Blockade of interleukin-1 β signaling prevents pro-inflammatory cross-talk between adipocytes and atrial cardiomyocytes *in vitro*

Lisa Marie Louise Oehlke (Essen)

12:15 -12:15

Characterization of the antibiotic mechanism of action of Farnesyltransferases inhibitors (FTIs) in bacteria

Leila Mokhlessi (Witten)

12:15 -12:15

Understanding the iRhom-ADAM17 complex as a potential pharmacological target for the treatment of chronic inflammation and viral infections

Stefan Düsterhöft (Aachen)

12:15 -12:15

Triggering mechanisms of NLRP3 inflammasome activation in atrial cardiomyocytes of patients with post-operative atrial fibrillation

Theresa Poppenborg (Essen)

12:15 -12:15

Role of protein kinase A isoforms in healthy and diabetic kidneys

Sally Prüschenk (Regensburg)

12:15 -12:15

NEUROPEPTIDE S INDUCES INVASIVE PHENOTYPE OF ENDOMETRIOTIC CELLS VIA SPHINGOSINE 1-PHOSPHATE SIGNALLING AXIS

Matteo Prisinzano (Florence)

12:15 -12:15

Sphingosine kinase-1 regulates intracellular calcium homeostasis by targeting plasma membrane calcium ATPase

Luisa Michelle Volk (Frankfurt am Main)

- 12:15 -12:15 Analysis of NO/cGMP signaling by impedance and in vivo calcium fluorescence assays
Philipp Schwenk (Regensburg)
- 12:15 -12:15 POPDC proteins – novel regulators of compartmentalized GPCR/cAMP signaling
Lisa Maria Martin (Leipzig)
- 12:15 -12:15 Role of G α_{i3} in platelets
Patrick Rieker (Tübingen)
- 12:15 -12:15 Identification of cCMP- and cUMP-binding proteins with agarose and biotin matrices
Sabine Wolter (Hannover)
- 12:15 -12:15 Analysis of global and specific RNA biosynthesis in response to interleukin-1 by a metabolic labelling approach and single molecule fluorescence in situ hybridization
Simon Hanel (Gießen)
- 12:15 -12:15 Interaction of UV-stabilizing phenolic benzotriazoles (BUV) with EGFR in human keratinocytes
Natalie C Sondermann (Düsseldorf)
- 12:15 -12:15 Annexin A4 regulates apoptosis signaling in human induced pluripotent stem cell-derived atrial cardiomyocytes, but not via ICER-PDE3A feedback loop
Edda Fehrmann (Münster)

12:30 –13:30

Meeting Fachgespräch

E0.013

12:45 –13:45

Meeting Beratungskommission GT

D 0.001

14:00 –14:50

**Plenary Lecture 2
Plenary Lecture – Alexander I. Sobolevsky**

Liebig HS

Vorsitz

Thomas Gudermann (München)

14:00 –14:05

Welcome

14:05 –14:50

Structural view of TRP channel function and pharmacology
Alexander Sobolevsky (New York, NY)

14:00 –15:00

**Meeting
AK Endokrine Effekte**

Bayer HS

14:00 –15:00

**Meeting
AK3R Treffen**

D 0.001

14:00 –18:30

Intern: Meeting

E0.013

14:50 –15:15

**Awards
Award Ceremony**

Liebig HS

Vorsitz

Robert Landsiedel (Ludwigshafen)

Roland Seifert (Hannover)

Ingolf Cascorbi (Kiel)

14:50 –14:55

Award of the Fritz-Külz-Preis
Ingolf Cascorbi (Kiel)

14:55 -15:00	Award of the Rudolf-Buchheim-Preis Roland Seifert (Hannover)
15:00 -15:05	Award of the GT-Toxicology-Award Robert Landsiedel (Ludwigshafen)
15:05 -15:10	Young Scientist Toxicology Merck Award Robert Landsiedel (Ludwigshafen)
15:10 -15:15	Young Investigator Awards GT, DGP & DGKliPha Robert Landsiedel (Ludwigshafen), Roland Seifert (Hannover), Ingolf Cascorbi (Kiel)
15:00 –16:00	Meeting AK Mischungstox
D 0.001	
15:15 –16:45	Paul-Martini-Symposium Plenary Lecture
Liebig HS	
Vorsitz	Dietmar Trenk (Bad Krozingen) Julia Wagle (Grenzach-Wyhlen)
15:15 -15:20	Welcome Dietmar Trenk (Bad Krozingen)
15:20 -15:40	AI/ML in Pharma R&D - An introduction and selected examples from industry Wolfgang Thielemann (Wuppertal)
15:40 -16:00	Learning Molecular Representations for Drug Discovery Djork-Arné Clevert (Berlin)
16:00 -16:20	Artificial Intelligence in Pharma R & D Anna Bauer-Mehren (Penzberg)
16:20 -16:40	The ethics of AI in medicine Andreas Wolkenstein (München)

16:40 -16:45

Conclusions

Julia Wagle (Grenzach-Wyhlen)

17:00 –18:30

Symposium 6

in silico methods to support regulatory assessment

Liebig HS

Vorsitz

Jochen vom Brocke (Espoo)

Markus Frericks (Ludwigshafen)

17:00 -17:30

Developing An In Silico Framework To Enable Next Generation
Carcinogenicity Assessment for Pharmaceuticals

Susanne Stalford (Leeds)

17:30 -17:45

The assessment of non-genotoxic carcinogenicity in pesticides using in
silico tools

James Firman (Liverpool)

17:45 -18:00

Machine-learning approaches for drug metabolism prediction

Ya Chen (Wien)

18:00 -18:30

A new OECD Guidance document for reporting Quantitative structure-
activity relationship (QSAR) models

Tina Hofmaier (Vienna)

17:00 –18:30

Symposium 7

Neuropharmacological effects in patients under polypharmacy: regenerative medicine - or degenerative enhancement?

Wieland HS

Vorsitz

Carsten Culmsee (Marburg)

Julia Stingl (Aachen)

17:00 -17:22

Mitochondrial dysfunction and loss of metabolic plasticity cause a
reversal of metformin longevity benefits in late life

Maria Ermolaeva (Jena)

17:22 -17:44 Anticholinergic medication and the burden of falls in the elderly
polymedicated patient
Katja S. Just (Aachen)

17:44 -18:06 Polypharmacy in the Rhinelandstudy - prevalence and potential risks
Dianna DeVries (Bonn)

17:00 –18:30 Symposium 8 Advances in Gene Therapy

Butenandt HS

Vorsitz Stylianos Michalakis (München)
Susanne Koch (München)

17:00 -17:22 CRISPRa for retinal gene therapy and beyond
Elvir Becirovic (Zürich)

17:22 -17:44 Gene Therapy of CLN7 Batten Disease
Katherine Wert (Dallas, TX)

17:44 -18:07 The therapeutic potential of mitochondrial genome engineering
Michal Minczuk (Cambridge)

18:07 -18:30 AAV-mediated gene therapies to counteracts insulin resistance and
obesity
Fatima Bosch (Barcelona)

17:00 –18:30 Symposium 9 Advanced dose-finding in phase II studies using the Multiple Comparisons Procedure (MCP-Mod)

Bayer HS

Vorsitz Ruwen Böhm (Erfurt)
Barbara Schug (Oberursel)

17:00 -17:45 Motivation and introduction to MCPMod
Gabriele Bleckert (München)

17:45 -18:30 Planning of dose-finding trials using MCPMod
Sebastian Bossert (Biberach)

20:00 –23:30 **Social Evening**

Social programme

15.03.2024

08:00 –09:00 **Short talks Toxicology 10 Inhalation Toxicology**

Liebig HS

Vorsitz

Christina Ziemann (Hannover)

Klaus Unfried (Düsseldorf)

08:00 -08:15 Development of a novel device for standardized e-liquid testing
Stefanie Scheffler (Hannover)

08:15 -08:30 Inhalation exposure to polystyrene or polyamide particles induces lung
inflammation and changes gene expression of different pathways in
Wistar rats
Emanoela Tha (Ludwigshafen)

08:30 -08:45 Using metabolomics to get a deeper insight on the effects of ultrafine
particles on a human lung model
Rasha Alsaleh (Erlangen)

08:45 -09:00 Influence of particle size and -surface on toxicological and inflammatory
effects *in vitro*
Götz Westphal (Bochum)

08:30 –10:00

Short talks Pharmacology 12 G-Protein-coupled receptors

Wieland HS

Vorsitz

Christoph Klenk (Zürich)

Stefan Schulz (Jena)

08:30 –08:45

Cortico-Subcortical Dysconnectivity Following Opioid Administration
Correlates with Analgesia in the Awake Mouse Brain

Andrea Kliewer (Jena)

08:45 –09:00

Characterization of receptor motifs determining coupling selectivity of G
proteins in different GPCR families

Sina B. Kirchhofer (Marburg)

09:00 –09:15

Characterization of distinct β -arrestin2 conformational change patterns
induced by natural and synthetic ACKR3 agonists

Noureldine Youssef (Jena)

09:15 –09:30

The NTF release sensor as a pharmacological screening method for
aGPCR drugs

Stephanie Häfner (Leipzig)

09:30 –09:45

Chemogenetic G protein-ligand pairs for causal investigation of cellular
biology *in vitro* and *in vivo*

Judith Alenfelder (Bonn)

09:45 –10:00

Novel GPCR-activation biosensor technology reveals ligand efficacy
driven receptor-transducer allostery

Romy Thomas (Berlin)

08:30 –10:00

Short talks Pharmacology 13 Immunopharmacology and cancer pharmacology

Butenandt HS

Vorsitz

Thomas Worzfeld (Marburg)

Sandra Beer-Hammer (Tübingen)

- 08:30 -08:45 Interleukin-2 induces type 2 and 17 skin inflammation in a CD25-dependent manner
Charline Sommer (Hannover)
- 08:45 -09:00 DUSP1 mediates glioblastoma resistance to temozolomide *via* inhibition of senescence induction
Jason Sallbach (Mainz)
- 09:00 -09:15 Interference with ERK dimerization reveals anti-inflammatory effects
Jan Niklas Herbel (Würzburg)
- 09:15 -09:30 Label-free biosensor assay decodes different dynamics of Toll-like receptor signaling
Janine Holze (Bonn)
- 09:30 -09:45 Loss of NF- κ B function in tumor cells reprograms *in trans* gene expression of co-cultured human macrophages
Daniel Heylmann (Gießen)

08:30 –10:00 Short talks Pharmacology 14 Drug biodistribution and safety

Bayer HS

Vorsitz Stefan Engeli (Greifswald)

08:30 -08:45 A post-transcriptional mechanism likely explains the weaker CYP3A4 induction effect of rifabutin compared to rifampicin.
Dirk Theile (Heidelberg)

08:45 -09:00 Polychlorinated biphenyls (PCBs) interact with drug metabolism in humans
Jens Rengelshausen (Aachen)

09:00 -09:15 Alternative phamaco- epidemiological confounding factors versus acetylsalicylic acid (ASS) as one suspect associated factor with Reye's syndrome in children.
Hubert Heuer (Schwabenheim)

09:15 -09:30 Clinical implementation and adaptation of pharmacogenomics testing in a German academic teaching hospital and outpatient setting
Roman Tremmel (Stuttgart), Filippa Schreeck (Stuttgart)

09:30 -09:45 Influence of Obesity on Cefuroxime Pharmacokinetics
Hannes Warschewske (Greifswald)

09:45 -10:00 The applicability of "nicotine flux" in tobacco products regulation
Carrie Wade (Lausanne)

09:00 –10:00 Short talks Toxicology 11 3R practice/ alternative methods

Liebig HS

Vorsitz Vivien Lange (Dortmunf)
Sebastian Honnen (Düsseldorf)

09:00 -09:15 Systematic acquisition of toxicity data in non-sentient models across animal phylogeny: implications for read-across and estimation of toxicity in humans
Gaëlle Hayot (Eggenstein-Leopoldshafen)

09:15 -09:30 Using alternative methods to develop an AOP in developmental neurotoxicity - a case example.
Britta Kühne (Berlin)

09:30 -09:45 A novel human 3D liver-bone co-culture model as a potential system for drug toxicity screening
Romina Haydeé Aspera-Werz (Tübingen)

09:45 -10:00 Impact of the irritant sodium dodecyl sulfate on dendritic cell activation of skin sensitizers in 3D coculture with reconstructed human epidermis
Udo Bock (Trier)

10:15 –11:05 Plenary Lecture 3 Plenary Lecture – John Kenneth Colbourne

Liebig HS

10:15 -10:20	Welcome Robert Landsiedel (Ludwigshafen)
10:20 -11:05	Searching for the evolutionary origins of chemical toxicity John Kenneth Colbourne (Birmingham)
11:05 –11:30	Award ceremony
Liebig HS	
11:05 -11:15	Poster Prizes DGP, DGkliPha I Ingolf Cascorbi (Kiel)
11:15 -11:25	Poster Prizes DGP, DGkliPha II Roland Seifert (Hannover)
11:25 -11:35	Poster Prizes GT Wim Wätjen (Halle (Saale))
11:45 –13:15	Symposium 10 Mixture toxicity
Liebig HS	
Vorsitz	Denise Bloch (Berlin) Henning Hintzsche (Bonn)
11:45 -11:55	Basic concepts of mixture toxicity Denise Bloch (Berlin)
11:55 -12:15	The modified reference point index (mRPI) - An approach to assess risks of food contaminant mixtures Katharina Vejdovszky (Wien)
12:15 -12:35	Data and assessment of combined exposure to multiple chemicals Robert Landsiedel (Ludwigshafen)
12:35 -12:55	What is different between designed mixtures and complex environmentally relevant mixtures? Beate Escher ()

12:55 -13:15

Panel discussion

Robert Landsiedel (Ludwigshafen), Beate Escher (), Katharina Vejdovszky (Wien), Denise Bloch (Berlin), Henning Hintzsche (Bonn)

11:45 –13:15

Symposium 11

Lipids - signaling and clinical significance

Wieland HS

Vorsitz

Bernhard Rauch (Oldenburg)

Edzard Schwedhelm (Hamburg)

11:45 -12:07

Clinical significance and guidelines of lipid-lowering therapy

Dietmar Trenk (Bad Krozingen)

12:07 -12:29

Sphingosine-1-phosphate (S1P) – a versatile lipid mediator of cellular functions

Edzard Schwedhelm (Hamburg)

12:29 -12:52

Variability in the response to prostaglandin synthase inhibitors in inflammatory pain and blood pressure regulation

Tilo Grosser (Bielefeld)

12:52 -13:15

Pro-resolving lipid mediators (SPMs) - formation, occurrence and biological activity

Dieter Steinhilber (Frankfurt am Main)

11:45 –13:15

Symposium 12

Novel therapeutic strategies for CNS disorders

Butenandt HS

Vorsitz/Chair

Jörg Striessnig (Innsbruck)

Vorsitz

Sonja Sucic (Wien)

11:45 -12:07

Novel psychoactive substances: exploiting rogue chemicals as therapeutic scaffolds

Harald Sitte (Wien)

- 12:07 -12:29 Novel pharmacotherapeutics for anxiety disorders and posttraumatic stress disorder
Nicolas Singewald (Innsbruck)
- 12:29 -12:52 Pharmacochaperoning of pathogenic variants in human neurotransmitter transporters
Sonja Sucic (Wien)
- 12:52 -13:15 Dynorphin-based "on demand" gene therapy for drug-resistant temporal lobe epilepsy
Christoph Schwarzer (Innsbruck)

11:45 –13:15

Symposium 13

Endpoints and mechanisms in lung toxicology

Bayer HS

Vorsitz

Johanna Gostner (Innsbruck)

Dirk Steinritz (München)

- 11:45 -12:15 miRNAs as biomarkers under consideration of toxic-related diseases of the lung with a focus on mesothelioma
Daniel Weber (Bochum)

- 12:15 -12:45 Lung pathology and mechanisms
Dirk Schaudien (Hannover)

- 12:45 -13:15 Fungal pathogens, antifungals and their resistance mechanisms'
Michaela Lackner (Innsbruck)

12:00 –13:30

Meeting

Fachgespräch

E0.013

13:30 –15:00

Symposium 14 Öffentlicher Vortrag

Liebig HS

Vorsitz/Chair

Franz Berthiller (Tulln)

13:30 -14:15

Algantoxinen auf der Spur: Fischsterben in der Oder
Elisabeth Varga (Vienna)

14:15 -15:00

Diskussion

13:30 –15:00

Symposium 15 OCTs - von Struktur und Funktion zu pharmakologischen Erkenntnissen

Wieland HS

Vorsitz

Anne T. Nies (Stuttgart)

Harald Sitte (Wien)

13:30 -13:52

The structures of OCT1-3: new possibilities in understanding drug-
transporter interactions

Erika Lazzarin (Wien)

13:52 -14:14

Species differences in OCTs - what can we learn about polyspecificity?

Marleen Meyer-Tönnies (Greifswald)

14:14 -14:37

Compare and Contrast: The role of membrane sterols in OCT2 and OCT3
function

Michele Visentin (Zürich)

14:37 -15:00

Regulation of organic cation transporters

Giuliano Ciarimboli (Münster)

13:30 –15:00

Symposium 16

Novel pharmacological targets for the metabolic syndrome: Cross-talk of adipose tissue, kidney and heart

Butenandt HS

Vorsitz

Maria Grandoch (Düsseldorf)

Miriam Cortese-Krott (Düsseldorf)

13:30 -13:52

Adipose tissue as a pharmacological target in metabolic syndrome

Maria Grandoch (Düsseldorf)

13:52 -14:14

Mitochondrial metabolism in ischemia-reperfusion injury

Tomas Schiffer (Stockholm)

14:14 -14:37

Iron Metabolism Regulates Endothelial Function

Luke Dunaway (Charlottesville, VA)

14:37 -15:00

Targeting adipose tissue to increase energy expenditure and fight the metabolic syndrome

Susanne Keipert (Stockholm)

13:30 –15:00

Symposium 17

Unlocking the rationale of GPCR targeting

Bayer HS

Vorsitz

Kristina Lorenz (Würzburg)

Christoph Klenk (Zürich)

13:30 -14:00

Signals locked to domains?

Martin Lohse (München)

14:00 -14:30

Design and characterization of biased ligands

Peter Gmeiner (Erlangen)

14:30 -15:00

Molecular determinants of ligand efficacy and potency in GPCR signaling

Franziska Heydenreich (Marburg)