

Sunday, September 1<sup>st</sup>

Vorsymposium der Fachgruppe „Geschichte der Pharmazie“: *Pharmazie in Heidelberg*  
Ort: Universität Heidelberg, Campus Im Neuenheimer Feld (INF), Hörsaalzentrum Chemie  
(Gebäude INF-252), 69120 Heidelberg; Hörsaal West

14:00 – 14:15	Begrüßung durch den Vorsitzenden der FG Geschichte der Pharmazie  <i>Prof. Dr. Christoph Friedrich, Marburg</i>
14:15 – 15:00	Entwicklung des Hochschulfaches Pharmazie an der Universität Heidelberg  <i>Dr. Arnt Heilmann, Hirschhorn (Neckar)</i>
15:00 – 15:45	Aus der Geschichte des Apothekenwesens in Heidelberg  <i>Dr. Albert Borchardt, Heidelberg</i>
15:45 – 16:15	Kaffeepause
16:15 – 17:00	Friedrich Bergius (1884-1949) – Chemiker, Unternehmer und Nobelpreisträger  <i>Prof. Dr. Wolf-Dieter Müller-Jahncke, Heidelberg</i>
17:00 – 17:45	Das Deutsche Apothekenmuseum im Heidelberger Schloss  <i>Dr. Elisabeth Huwer, Heidelberg</i>

Monday, September 2 <sup>nd</sup> Main Symposium (Congress language English)	
09:00 – 12:00	Sitzung des VdPPHI (HS West) Chair: B. Clement
13:00 – 13:45	Opening of the Annual DPhG Meeting 2019 (Großer HS) Pharmaceutical research: From basic research to medical applications
13:45 – 14:30	Plenary lecture 1, G. Borchard, <i>Critical quality attributes of nanomedicines: What matters and why?</i> (Großer HS) <span style="float: right;">PL.1</span>
14:30 – 15:00	Coffee break

#### SHORT TALKS (parallel sessions I)

15:00 – 16:30	SL1 (Großer HS)	SL2 (HS West)	SL3 (HS Ost)
	<b>New Research, New Researchers I</b> Chair: S. Laufer	<b>Ion channels as drug targets</b> Chairs: P. Ruth, M. Freichel	<b>Fachsymposium Dermatopharmakologie: "Predictivity of in vitro tests in pharmacology and toxicology"</b> Chairs: G. Weindl, J. Klein
	15:00 <b>SL.01</b> <b>K. Nakayama:</b> <i>Molecular basis for protein trafficking within cilia and ciliopathies revealed by the visible immunoprecipitation (VIP) assay and CRISPR/Cas9 system</i>	15:00 <b>SL.05</b> <b>A. Guse:</b> <i>NAADP: a fundamental modulator of Ca<sup>2+</sup> release channels in Lymphocytes</i>	15:00 <b>SL.09</b> <b>M. Schäfer-Korting:</b> <i>Reconstructed human skin can predict the efficacy and safety of drugs in humans</i>
	15:30 <b>SL.02</b> <b>R. Wombacher:</b> <i>Protein Labelling and Manipulation in Living Cells Using Bioorthogonal Chemistry</i>	15:30 <b>SL.06</b> <b>Y-K. Chao:</b> <i>Agonist-Dependent switching of Ion selectivity in endolysosomal TPC2 channel</i>	15:30 <b>SL.10</b> <b>R. Landsiedel:</b> <i>Adverse outcome pathway-based concepts and tools for assessing skin sensitization</i>
	15:50 <b>SL.03</b> <b>A. S. Kahnt:</b> <i>Supporting resolution? Biosynthesis of specialized pro-resolving mediators (SPM) in human leukocytes</i>	16:00 <b>SL.07</b> <b>V. Tsvilovskyy:</b> <i>Identification of OCaR1 as a gatekeeper of lysosomal-granular Ca<sup>2+</sup> release and regulated exocytosis</i>	16:00 <b>SL.11</b> <b>G. Weindl:</b> <i>Reconstructed tissue models with integrated immune cells – Do we need advanced in vitro tests for the evaluation of drugs and chemicals?</i>
	16:10 <b>SL.04</b> <b>M. Koziolk:</b> <i>The application of salivary caffeine concentrations to study gastric emptying of fluids and formulations in humans</i>	16:15 <b>SL.08</b> <b>J. Camacho-Londono:</b> <i>Determination of fatal ventricular arrhythmias by a new regulator of Ca<sup>2+</sup> signaling at the lysosomal-SR junction</i>	16:15 <b>SL.12</b> <b>C. Zoschke:</b> <i>Human cell-based tumor microenvironment models for improved preclinical drug development</i>
16:45 – 17:30	Plenary lecture 2, R. Bartschlagler, <i>Curative therapy for chronic hepatitis C: Successes and remaining challenges</i> (Großer HS) <span style="float: right;">PL.2</span>		

17:30 – 18:45	<b>Meetings der DPhG-Fachgruppen</b>					
	<b>Fachgruppe Pharm./Med. Chemie</b> P. Gmeiner (Großer HS)	<b>Fachgruppe Pharm. Biologie</b> A. Vollmar (HS Ost)	<b>Fachgruppe Pharmakologie</b> J. Klein (HS West)	<b>Fachgruppe Pharm. Technologie</b> D. Fischer (Gebäude INF 327, Seminarraum 3, EG)	<b>Fachgruppe Klinische Pharmazie</b> T. Lehr (HS Med. Klinik, INF 410)	<b>Fachgruppe Industrie-pharmazie</b> ( )
	AG Radio- Pharmazie, Dr. PD Reischl (Gebäude INF 327, Seminarraum 1, EG)					
19:00 – 21:30	<b>Poster Session I (19.30 – 20.30 h) and Welcome Reception</b>					

**Tuesday, September 3<sup>rd</sup>**

**SHORT TALKS (parallel sessions II)**

	SL4 (Gr. HS)	SL5 (HS West)	SL6 (HS Ost)
08:30 – 10:00	<b>Cysteine-reactive inhibitors and probes</b> Chair: T. Schirmeister	<b>Dysfunctional Cellular Signaling in Cardiovascular Diseases</b> Chairs: T. Wieland, R. Gilsbach	<b>Biopharmacy, Pharmaceutical Technology</b> Chair: G. Fricker
	08:30 SL.13 <b>P. Czodrowski:</b> <i>Cysteine, pKa, covalent attack: any correlation?</i>	08:30 SL.16 <b>K. Lorenz:</b> <i>Selective inhibition of nuclear ERK1/2 functions – two quite distinct implications: cardiac hypertrophy and cancer?</i>	08:30 SL.19 <b>E. Wagner:</b> <i>Molecular Therapeutics from DNA to Cas9/sgRNA: Chemical Evolution of Nanocarriers</i>
	09:00 SL.14 <b>M. Gütschow:</b> <i>Novel Cathepsin B Inhibitors with Inversely Oriented Warheads</i>	09:00 SL.17 <b>R. Gilsbach:</b> <i>Identification and modulation of chromatin interactions in cardiac myocytes</i>	09:00 SL.20 <b>Y. Takakura:</b> <i>Development of exosome-based nucleic acid drug delivery system</i>
	09:30 SL.15 <b>M. Gehringer:</b> <i>Covalent Kinase Inhibition by Reversible and Irreversible Cysteine Targeting</i>	09:30 SL.18 <b>V. Nikolaev:</b> <i>Altered cyclic nucleotide microdomains in cardiac disease</i>	09:30 SL.21 <b>U. Lächelt:</b> <i>Metal-Organic Nanopharmaceuticals</i>
			09:45 SL.22 <b>C. Wölk:</b> <i>Development of lipoplex-loaded model surface coatings for the in situ transfection in the field of bone regeneration</i>
10:00 – 10:15	<b>Coffee break</b>		

SHORT TALKS (parallel sessions III)

10:15 – 11:45	SL7 (Großer HS)	SL8 (HS West)	SL9 (HS Ost)
	<b>Gold! Hunting treasures in chemistry and pharmacology</b> Chair: C. Klein	<b>Evidence-based value added to innovative health care by pharmacists</b> Chairs: H. Seidling, U. Jaehde	<b>Simulation in Pharmaceutical and Formulation Development</b> Chairs: D. Fischer, P. Langguth
	10:15 SL.23 <b>S. Hashmi:</b> <i>Gold Catalysis: Functionalized Gold Carbenes, Unexpected Selectivities</i>	10:15 SL.26 <b>T. Dreischulte:</b> <i>Evidence-based value added to innovative health care by pharmacists: Ambulatory care</i>	10:15 SL.29 <b>H. Wachtel:</b> <i>Simulations in pharmaceutical technology</i>
	10:45 SL.24 <b>I. Ott:</b> <i>Gold Organometallics in Medicinal Chemistry</i>	10:45 SL.27 <b>T. Hoppe-Tichy:</b> <i>Evidence-based value added to innovative health care by pharmacists - Hospital Setting</i>	10:45 SL.30 <b>M. A. Nguyen:</b> <i>Pharmacokinetic Modelling and Simulation to Support Early Clinical Drug Development</i>
	11:15 SL.25 <b>A. Miller &amp; N. Gunkel:</b> <i>Homoleptic gold dithiocarbamate TXNRD1 inhibitors prevent tumor recurrence in a small cell lung cancer mouse model</i>	11:15 SL.28 <b>U. Jaehde:</b> <i>Evidence-based value added to innovative health care by pharmacists: Long-term care facilities</i>	11:15 SL.31 <b>A. N. Ciciliani:</b> <i>Simulation of pulmonary deposition during inhalation therapy</i>  11:30 SL.32 <b>G. Fuhrmann:</b> <i>Exosome-Hydrogels as Machinery for Anti-Inflammatory Therapeutics' Synthesis</i>
11:45 – 12:45	<b>Poster Short Talks (Großer HS)</b> Chairs: D. Fischer, P. Ruth, S. Wölfl		
	11:45 PST.01 <b>K. Mäder:</b> <i>Intracochlear PLGA based implants for dexamethasone release: challenges and solutions</i>	12:14 PST.11 <b>M. Felix:</b> <i>Proteomic Exploration of IDH-Mutant Brain Tumors</i>	
	11:48 PST.02 <b>F. Mitrach:</b> <i>Stabilization of Calcium Phosphate nanoparticles as carrier system for siRNA</i>	12:17 PST.12 <b>J. Seeger:</b> <i>Determinants of growth-kill behaviour of fluoroquinolone resistant Escherichia coli under levofloxacin exposure in a dynamic in vitro infection model</i>	
	11:51 PST.03 <b>D. Lunter:</b> <i>Optimization of thermogelling emulsions with enhanced substantivity for use in treatment of chronic skin diseases</i>	12:20 PST.13 <b>A. Müller-Schöll:</b> <i>Computational treatment simulation to assess the risk for non-efficacy in tamoxifen treated breast cancer patients of different ethnicities</i>	
	11:54 PST.04 <b>P. Uhl:</b> <i>Cell penetrating liposomes enable the oral delivery of peptide drugs</i>	12:23 PST.14 <b>X. Cheng:</b> <i>Triple-color reporter system to follow up directed differentiation of iPSC towards the three germ layers</i>	

11:57 <b>L. Ilia:</b> <i>Identification and quantification of microdialysis variability using a dynamic in vitro microdialysis system and nonlinear mixed-effects modelling</i>	PST.05	12:26 <b>G. Treccani:</b> <i>Ketamine promotes early changes in dendritic morphology in the hippocampus of a genetic rat model displaying depressive-like behaviour</i>	PST.15
12:00 <b>Y-M. Pudritz:</b> <i>Pharmacology meets (clinical) pharmacy – virtual patients for pharmacy students</i>	PST.06	12:29 <b>R. Bilancia:</b> <i>Sex dimorphism in rat platelet aggregation</i>	PST.16
12:03 <b>S. Schwarthoff:</b> <i>Addressing targets relevant in neurodegenerative disorders: synthesis and biological activity of multifunctional heterobivalent carboline derivatives</i>	PST.07	12:32 <b>N. Wössner:</b> <i>Thiocyanates as a new class of selective Sirt1 inhibitors</i>	PST.17
12:06 <b>M. Borchers:</b> <i>“Gender Medicine” in the 18th century?! Pharmacotherapy in the hessian hospital Merxhausen</i>	PST.08	12:35 <b>B. Praefke:</b> <i>Small molecules as MKK4 inhibitors for the regeneration of hepatocytes</i>	PST.18
12:09 <b>S. Heuter:</b> <i>Platelets induce a chemoresistance of tumor cells by upregulating drug efflux transporters</i>	PST.09	12:38 <b>S. Andreev:</b> <i>From JAK to GSK-3<math>\beta</math>: Synthesis and Biological Evaluation of 7-Chloro-9H-Pyrimido[4,5-b]indoles as Inhibitors of Glycogen Synthase Kinase-3<math>\beta</math></i>	PST.19
12:11 <b>F. Almouhanna:</b> <i>Glycolytic Flux and p53 status influence Growth Inhibition in response to the G6PD Inhibitor DHEA in Colorectal Cancer Cells</i>	PST.10	12:41 <b>J. Hofmann:</b> <i>Bioisosteres of the Natural Product Taxifolin and their Impact on Amyloid-<math>\beta</math> 42 Aggregation and Intracellular Oxidative Stress</i>	PST.20
12:45 – 13:45	<b>Lunch break</b> <b>Workshop PubPharm - Tools für die pharmaziespezifische Recherche, C. Draheim (HS West)</b>		
13:45 – 14:30	<b>Plenary lecture 3, W. Haefeli, Achievements, persisting challenges and unmet needs in medication safety (Großer HS)</b> <b>PL.3</b>		

#### SHORT TALKS (parallel sessions IV)

14:30 – 16:00	SL10 (Großer HS)	SL11 (HS West)	SL12 (HS Ost)
	<b>G-Protein-coupled Receptors</b> Chairs: P. Gmeiner, B. Wünsch	<b>Radiopharmacy &amp; Labeling</b> Chairs: W. Mier	<b>Proteomics in Medicine and Pharmacy</b> Chair: A. Sinz
	14:30 <b>M. Bünemann:</b> <i>Dynamics of GPCR - G protein interactions as the key to understand coupling selectivity of GPCRs</i>	SL.33 14:30 <b>T. Ross:</b> <i>Visualisation of cardiac fibrosis using [68Ga]MHLL1 – A PET tracer for the fibroblast activation protein</i>	SL.37 14:30 <b>M. Bantscheff:</b> <i>Drug effects on protein homeostasis</i>
			SL.41

	14:50 <b>D. Weikert:</b> <i>Bivalent ligands targeting heterodimers of dopamine receptors</i>	SL.34	15:00 <b>G. Reischl:</b> <i>Development and validation of 2-nitroimidazole-furanoside based fluorine-18 labeled PET-radiopharmaceuticals for the in-vivo detection of hypoxic tissue in tumors</i>	SL.38	15:00 <b>K. Marcus:</b> <i>Laser Capture Microdissection/Mass spectrometry- a promising tool in tissue-based clinical proteomics</i>	SL.42
	15:15 <b>M. Decker:</b> <i>Photopharmacology in Alzheimer research: Tools to investigate GPCRs</i>	SL.35	15:20 <b>M. Keller:</b> <i>Functionalized N<math>\omega</math>-carbamoylated arginines give access to labeled peptide receptor ligands</i>	SL.39	15:30 <b>A. Maurer:</b> <i>GMP Radiolabeling and First-in-Man Imaging of an Antibody for the Diagnosis of Aspergillosis</i>	SL.43
	15:35 <b>G. Wolber:</b> <i>In Silico Pharmacology: A Mechanistic View on GPCR Modulation</i>	SL.36	15:40 <b>O. Prante:</b> <i>Radioynthesis, in-vitro and in-vivo studies of <sup>177</sup>Lu-labeled neurotensin receptor-1 antagonists as radiotracers for the therapy of pancreatic cancer</i>	SL.40	15:45 <b>M. Ardel:</b> <i>Inhibition of Cdk5 – A New Way to Improve the Standard Therapy of Hepatocellular Carcinoma</i>	SL.44
16:00 – 16:30	<b>Poster Session II and Coffee Break</b>					
16:30 – 17:15	<b>Plenary lecture 4, S. Knapp, <i>Strategies for selective targeting of protein kinases</i> (Großer HS)</b> PL.4					
17:30 – 19:00	<b>DPhG Hauptversammlung (Großer HS)</b>					
Ab 19:30	<b>Conference Dinner (Restaurant Schlosshotel Molkenkur, Klingenteichstraße 31, 69117 Heidelberg )</b>					

Wednesday, September 4<sup>th</sup>

SHORT TALKS (parallel sessions V)

08:30 – 10:00	SL13 (Großer HS)	SL14 (HS West)	SL15 (HS Ost)
	<b>Microfluidics / Cell-based assays and organoids for drug discovery</b> Chair: S. Wölfl	<b>New Research, New Researchers II</b> Chairs: A. Link, F. Hansen	<b>The promise of cure - recent breakthrough innovation in cell- and gene therapy</b> Chair: H. Apeler
	<b>08:30 SL.45</b> <b>C. Merten:</b> <i>Droplet Microfluidics in antibody discovery and personalized cancer therapy</i>	<b>08:30 SL.48</b> <b>D. Merk:</b> <i>Direct PPAR<math>\gamma</math> activation by L-thyroxin and TETRAC links thyroid hormone and PPAR signaling</i>	<b>08:30 SL.53</b> <b>K. Cichutek:</b> <i>Cell and gene therapy developments: it is now or never!</i>
		<b>08:50 SL.49</b> <b>J. Gerstmeier:</b> <i>Targeting biosynthetic networks of the proinflammatory and proresolving lipid metabolome: a promising pharmacological strategy for intervention with inflammation</i>	<b>09:00 SL.54</b> <b>J. Stitz:</b> <i>Hybrid retrovirus-transposon vectors</i>
	<b>09:10 SL.46</b> <b>S. Wölfl:</b> <i>Analyzing toxicity and metabolic interactions with microfluidic liver-kidney-on-a-chip systems</i>	<b>09:10 SL.50</b> <b>N. Schützenmeister:</b> <i>Natural Products as Novel Lead Structures: Method Development and Biological Testing</i>	
	<b>09:35 SL.47</b> <b>X. Cheng:</b> <i>Seeking for chemical OCT4 substitutes for the generation of human iPSCs</i>	<b>09:30 SL.51</b> <b>D. Kalinin:</b> <i>Small-molecule inhibitors of human coagulation factor XIIa: synthesis and anticoagulant activity</i>	<b>09:30 SL.55</b> <b>G. Schmiedeknecht:</b> <i>Challenges in manufacturing and Quality Control of ATMPs</i>
		<b>09:45 SL.52</b> <b>C. Lamers:</b> <i>Structure-activity study and molecular insights in the mode of action of complement C3 inhibitor Cp40</i>	
10:00 – 10:30	<b>Poster Session II and Coffee Break</b>		

**SHORT TALKS (parallel sessions VI)**

10:30 – 12:00	SL16 (Großer HS)	SL17 (HS West)	SL18 (HS Ost)
	<b>Natural Products - From Molecular Pharmacology to Clinical Applications</b> Chairs: M. Wink, T. Efferth	<b>Bioanalytical Mass Spectrometry</b> Chair: M. Lämmerhofer	<b>Challenges and opportunities in model based dose adaptation</b> Chairs: C. Kloft, T. Lehr
	<b>10:30 SL.56</b> <b>T. Efferth:</b> <i>Systems biology with natural products for individualized cancer therapy</i>	<b>10:30 SL.59</b> <b>T. Alexandrov:</b> <i>Spatial metabolomics in tissues and single cells</i>	<b>10:30 SL.62</b> <b>O. Scherf-Clavel :</b> <i>Therapeutic drug monitoring in oncology – Case examples</i>
	<b>11:05 SL.57</b> <b>M. Wink:</b> <i>Treatment of patients with cardiac AL amyloidosis with epigallocatechin-3-gallate (EGCG) from green tea- results of a clinical study and transcriptomics</i>	<b>11:05 SL.60</b> <b>C. Hopf:</b> <i>MALDI Mass Spectrometry-Based Applications in Pharmacology</i>	<b>11:00 SL.63</b> <b>L. Klopp-Schulze:</b> <i>Model-based precision dosing of tamoxifen therapy</i>
	<b>11:40 SL.58</b> <b>C. Jessen-Trefzer:</b> <i>Targeting the mycobacterial membrane with photosensitizers</i>	<b>11:40 SL.61</b> <b>S. Pace:</b> <i>Sex bias in colitis yields a protective role of specialized pro-resolving mediators in female mice</i>	<b>11:30 SL.64</b> <b>S. Wicha:</b> <i>Methodological aspects of model-based dose adaptations</i>
<b>12:00 – 13:00</b>	<b>Lunch Break</b>		
<b>13:00 - 13:45</b>	<b>Plenary lecture 5, H. zur Hausen, “Indirect“ Mode of Cancer Induction by Infections (Großer HS )</b>		
<b>13:45 – 14:30</b>	<b>Closing ceremony (Großer HS)</b>		