

EUFEPS ANNUAL MEETING 2019 6-8 MARCH 2019 FRANKFURT AM MAIN, GERMANY

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EFMC
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for Medicinal Chemistry



Wednesday, March 6th, 2019

**Pre-Symposium of the EUFEPS Network „History of Pharmacy“:
Pharmacy in Germany
Venue: Lecture hall H4**

**10:00 –
10:15**

Axel Helmstädter, Frankfurt, Germany
Welcome from the head of the network History of Pharmacy

**10:15 –
11:00**

Axel Helmstädter, Frankfurt, Germany
Development of the German Pharmacy System

**11:00 –
11:45**

Sabine Bernschneider-Reif, Darmstadt, Germany
350 years of Merck, the oldest pharmaceutical company in the world

**11:45 –
12:15**

Coffee Break

**12:15 –
13:00**

Stefan Wulle, Braunschweig, Germany
Pharmaceutical library services in the digital age

Wednesday, March 6th, 2019	
Main Symposium (Congress language English)	
13:00 – 13:30	Opening of the EUFEPS ANNUAL CONFERENCE 2019 (lecture hall H3) Personalized Medicines, Targeted Therapies, Precision Drug Delivery Simone Fulda (Vice President Goethe University Frankfurt) Jochen Maas (Vice President House of Pharma) Dieter Steinhilber (President EUFEPS)
13:30 – 14:00	Plenary lecture 1, Daniel Müller (Canada), <i>Towards implementation of pharmacogenetics in psychiatry</i> P.1
14:00 – 14:30	Plenary lecture 2, Juan José Lasarte (Spain), <i>Awakening the immune system to fight cancer</i> P.2
14:30 – 15:00	Plenary lecture 3, Jean-Christophe Leroux (Switzerland), <i>Bad reasons for publishing research findings and their negative impact on data reliability</i> P.3
15:00 – 15:30	Coffee break

SHORT TALKS (parallel sessions I)

15:30 – 17:00	SL1 (lecture hall H4)	SL2 (lecture hall H3)
	Drug Targets	Drug formulation
	Oncology Chairs: Stefan Knapp, Stefan Laufer	EUFEPS Networks on NanoMedicine and BABP with NBCD Working Group NBCDs, Nanomedicines and Nanosimilars Chairs: Erem Bilensoy, Gerrit Borchard, Henning Blume
	15:30 SL.01 Christa Müller: <i>Development of tools and drugs targeting purine-binding membrane proteins for cancer Immunotherapy</i>	15:30 SL.06 Gerrit Borchard: <i>Bridging the nano-gap: Critical quality attributes for non-biological complex drugs</i>
	15:50 SL.02 Manfred Jung: <i>Chemical epigenetics - inhibitors of reversible lysine acetylation and methylation</i>	15:50 SL.07 Susanne Bremer: <i>Mapping nanomedicine terminology and the regulatory landscape</i>
	16:10 SL.03 Lars Zender: <i>Translating liver cancer biology: From functional target discovery to academic drug discovery and development</i>	16:10 SL.08 Erem Bilensoy: <i>Global -omics approach to develop nanomedicines</i>
	16:30 SL.04 Rolf Marschalek: <i>Investigating HDACi and dnTaspase1 for the treatment of (4;11) leukemic cells</i>	16:30 SL.09 Felix Schacher: <i>Polyether-based block copolymers as versatile toolbox in nanomedicine: crosslinking, charge control and cargo-carrier interactions</i>
	16:45 SL.05 Daniel Merk: <i>A designed dual modulator of farnesoid X receptor and soluble epoxide hydrolase with synergistic efficacy in non-alcoholic steatohepatitis</i>	16:45 SL.10 Diego Romano Perinelli: <i>New insights regarding the chemical-physical characterization of liposomal formulations: the case of Doxil®</i>

Flash presentations (lecture hall H3)
Chairs: Korbinian Löbmann/Märit Johansson

17:00 – 18:00	<p>17:00 FP.01 Eren Demirpolat: <i>The relationship between voriconazole side effects, plasma concentration and polymorphisms in haematological malignancy patients</i></p>	<p>17:30 FP.07 Selin Yüksel: <i>Adjuvant activity of chitosan-porins systems on murine macrophages</i></p>
	<p>17:05 FP.02 Ozlem Coban: <i>pH-dependent release of niclosamide loaded Eudragit nanofibers for colon targeting: formulation development and in vitro characterization studies</i></p>	<p>17:35 FP.08 Hazal Ezgi Gültekin: <i>Evaluation of the effect of physical structure properties on the drug release profile of the tablets manufactured by fused deposition modelling-3D printing</i></p>
	<p>17:10 FP.03 Hristos Glavinas: <i>Investigations of the mechanism behind the rapid absorption of nano-amorphous abiraterone acetate</i></p>	<p>17:40 FP.09 Vildan Yozgatli: <i>Tetrahydrozoline hydrochloride loaded ocular microemulsions: Development, characterization and in vitro - in vivo evaluation</i></p>
	<p>17:15 FP.04 Anna Muriel Jacinto: <i>Preformulation and formulation studies of the alcoholic extract of Punica granatum L. (Lythraceae) exocarp as antimicrobial ointment</i></p>	<p>17:45 FP.10 Aysee Esra Karaday: <i>Cytotoxic effects and anti-oxidant activity of Opuntia ficus-indica (L.) Mill. fruit extract on various cancer cell lines</i></p>
	<p>17:20 FP.05 Sila Gulbag: <i>Cyclosporine A nanosuspension produced by wet media milling method: Development and characterization</i></p>	<p>17:50 FP.11 Robert Wawrzinek: <i>A targeted delivery system for Langerhans cells</i></p>
	<p>17:25 FP.06 Ayse Nur Oktay: <i>Flurbiprofen nanosuspension based gel systems: Wet milling assisted production of nanosuspensions for dermal application</i></p>	

18:00 – 21:30 **Poster Session I and Welcome Reception**

Thursday, March 7th, 2019

Plenary lectures (lecture hall H3)

Chair: Erem Bilensoy.

09:00 – 09:30	Plenary lecture 4, Ravi Kumar (USA), <i>Next generation nanosystems in drug delivery: It's all about delivery</i> P.4
09:30 – 10:00	Plenary lecture 5, Frank Buchholz (Germany), <i>Programmable nucleases and designer recombinases for genome surgery</i> P.5
10:00 – 10:30	Coffee break

SHORT TALKS (parallel sessions II)

10:30 – 12:00	SL3 (lecture hall H4)	SL4 (lecture hall H3)
	Drug Targets	Drug formulation
	Biomarkers for personalized medicines or: Omics technologies Chairs: Theo Dingermann, Anna Eichhorn	EUFEPS Networks on NanoMedicine and BABP with NBCD Working Group NBCDs, Nanomedicines and Nanosimilars Chairs: Erem Bilensoy, Gerrit Borchard, Henning Blume
10:30	SL.11 Daniel Müller: <i>From basepairs to bed: Clinical application of pharmacogenetics to optimize psychiatric medication treatment</i>	SL.16 Peter Wick: <i>Influencing factors on nanomedicines efficacy and safety: An iron-carbohydrate complex perspective</i>
10:50	SL.12 Martina Hahn: <i>Experiences with the use of Pgx testing in psychiatry</i>	SL.17 Patrick Boisseau: <i>Defining critical attributes of nanomedicines: The contribution of the European Nanomedicine Characterisation Laboratory</i>
11:10	SL.13 Daniela Steinberger: <i>Overcoming of clinical obstacles with "Ubiquitous Pharmacogenomics" (U-PGx): The time for implementation is now.</i>	SL.18 Ildiko Csoka <i>Potentials and threats of the colloidal systems as carriers for peptide drugs</i>
11:30	SL.15 Nancy Hakoоз: <i>Differences in UGT1A1 and UGT1A7 Polymorphisms between Circassian, Chechen and Jordanian-Arab populations</i>	SL.19 Tiziana Di Francesco: <i>Is nano just a formulation? The case of intravenous iron-based nano-colloidal products</i>
11:50	Discussion	11:45 Podium discussion Henning Blume (moderator) Rogério Gaspar
12:00 – 13:30	Lunch break	

SHORT TALKS (parallel sessions III)

13:30 – 15:00	SL5 (lecture hall H4)	SL6 (lecture hall H3)
	Drug Targets	Drug formulation
	Personalized medicine outside of	Targeted Drug Delivery and Age-

	Oncology Chairs: Jochen Maas, NN	appropriate formulations Chairs: Niklas Sandler, Maria Blanco-Prieto
	13:30 SL.20 Hartmut Ruetten: <i>Precision Medicine in the management of diabetes</i>	13:30 SL.24 Jessica Rosenholm: <i>Mesoporous silica nanoparticles as drug reservoirs for enhancing the dissolution of poorly soluble drugs in dosage form design</i>
	13:55 SL.21 Birgit Aßmus: <i>Personalized medicine in cardiology – from genes to daily life</i>	13:50 SL.25 Andreas Bernkop-Schnürch: <i>Mucoadhesive polymers in targeted mucosal drug delivery and therapy</i>
	14:20 SL.22 Angel Cedazo-Minguez: <i>The need of personalized medicine in neurodegenerative disorders</i>	14:10 SL.26 Catherine Tuleu: <i>Insight into paediatric formulations</i>
	14:45 SL.23 Dunja Urbancic: <i>Insights into the biological function of thiopurine S-methyltransferase: the involvement in selenium metabolism</i>	14:30 SL.27 Silvia Pescina: <i>Peptides and proteins: advantages and hurdles in ocular delivery</i>
		14:45 SL.28 Ferenc Fenyvesi: <i>Pharmacokinetics and tissue distribution of PET radiotracer labelled hydroxypropyl-beta-cyclodextrin</i>
15:00 – 15:30	Coffee break	

SHORT TALKS (parallel sessions IV)

15:30 – 17:00	SL7 (lecture hall H4)	SL8 (lecture hall H3)
		Drug formulation/ PAT
	EUFEPS Network Pharmacogenetics Research and Implementation (EPRIN) Chairs: Ana Alfirevic, Ann Daly	EUFEPS Network QbDPAT Chairs: Jukka Rantanen, Maike Windbergs
	15:30 SL.29 Ann Daly: <i>Pharmacogenomics of drug-induced liver injury</i>	15:30 SL.34 Johannes Khinast: <i>Digital design of products and processes in the context of advanced pharmaceutical manufacturing</i>
	15:50 SL.30 Anke-Hilse Maitland-van der Zee: <i>Precision Medicine in respiratory disease, are we beyond fiction?</i>	15:50 SL.35 Hélder Santos: <i>Microfluidics fabrication of nanomedicines</i>

16:10 Ingolf Cascorbi: <i>Pharmacogenetics of immune-modulating Therapy</i>	SL.31	16:10 Fridolin Okkels: <i>Process rheology of semisolid products</i>	SL.36
16:30 Eugenia Hoffmann: <i>Advanced bioanalysis for a better understanding of immunogenicity</i>	SL.32	16:30 Heike Bunjes: <i>Drug loading capacity of lipid nanoparticles</i>	SL.37
16:45 Meike Saul: <i>miR-574-5p as RNA decoy for CUGBP1 stimulates human lung tumor growth by mPGES-1 induction</i>	SL.33	16:45 Joao Lopes: <i>A risk assessment based pharmaceutical raw-materials sampling methodology</i>	SL.38

SHORT TALKS (parallel sessions V)

17:00 – 18:30	SL9 (lecture hall H4)	SL10 (lecture hall H3)
	EUFEPS Network Veterinary Medicines Chairs: Ivo Schmerold, Aletta Kraneveld	EUFEPS Network Dermatopharmacy Chairs: Barbara Schug, Betsy Hughes-Formella
	17:00 Ronette Gehring: <i>Personalized Medicines: All creatures great and small - what do personalised medicines mean for veterinarians?</i>	17:00 Marc Brown: <i>In vitro performance testing in de-risking topical formulation development</i>
	17:20 Henrik Rönnerberg: <i>Targeted Therapies: Cancer therapy in companion animals – a comparative research approach</i>	17:30 Frank Sinner: <i>In vivo skin PK testing for new and generic topical dermatological drug development</i>
	17:40 Şevda Senel: <i>Precision drug delivery to animals: Formulation challenges</i>	
	18:00 Maria Manuela Gaspar: <i>Nanoformulated hybrid molecules with high in vitro and in vivo potential against melanoma</i>	18:00 Janet König: <i>The new European Draft Guideline on equivalence of topical products</i>
	18:15 Block discussion	
19:30 – 24:00	Conference Dinner	

Friday, March 8th, 2019

Plenary lectures (lecture hall H3)

Chair: Jochen Klein.

08:30 – 09:00	Plenary lecture 6, Kathy Giacomini (USA), <i>Global consortia: Empowering pharmacogenomic studies</i>	P.6
09:00 – 09:30	Plenary lecture 7, Maria José Alonso (Spain), <i>Why to use nanotechnology for the formulation of proteins</i>	P.7
09:30 – 10:00	Plenary lecture 8, Ugur Sahin (Germany), <i>Individualized cancer immunotherapy</i>	P.8
10:00 – 10:30	Coffee break	

SHORT TALKS (parallel sessions VI)

10:30 – 12:00	SL11 (lecture hall H4)	SL12 (lecture hall H3)
	Drug Targets	Drug formulation
	EUFEPS Network Systems Pharmacology Chairs: Achim Schmidtko, Coen van Hasselt	Analytical Technologies Chairs: Maike Windbergs, Jukka Rantanen
10:30	SL.46 Piet van der Graaf (Douwe Breimer lecture): <i>From precision medicine to accurate therapy using QSP</i>	10:30 SL.51 Ulrike Alexiev: <i>Fluorescence lifetime imaging microscopy as analytical tool for drug delivery systems and drug delivery</i>
10:50	SL.47 Iñaki Troconiz: <i>Systems pharmacology models to understand the contribution of the immune response to treatment effects</i>	10:50 SL.52 Axel Zeitler: <i>Fast, non-destructive terahertz dissolution assay for immediate release tablets</i>
11:10	SL.48 Max von Kleist: <i>A quantitative systems pharmacology approach to evaluating the potential of antivirals for repurposing in HIV prophylaxis</i>	11:10 SL.53 Jesper Østergaard: <i>UV-Vis based dissolution imaging for formulation development</i>
11:30	SL.49 Guido Zaman: <i>Identification of predictive drug response biomarkers for all kinase inhibitors approved for clinical use by combined cellular and biochemical profiling</i>	11:30 SL.54 Muge Kilicaslan: <i>Non-destructive 3D imaging and quantitative analysis of clindamycin phosphate loaded PLGA nanoparticles by using nano-CT</i>
11:45	SL.50 Jonas Petersen: <i>Distinct functions of NO-GC isoforms in the processing of chronic pain</i>	11:45 SL.55 Ayse Ercan: <i>A metabolomic study to investigate the effect of folate conjugated nanoparticles on triple negative breast cancer cells</i>
12:00 – 13:00	Lunch break	

SHORT TALKS (parallel sessions VII)

13:00 – 14:30	SL13 (lecture hall H4)	SL14 (lecture hall H3)
	Novel drugs Chairs: Robert Fürst, Anders Karlén (EFMC)	Regulatory Science /Drug Delivery Chairs: Rogério Gaspar, Eva Szökö
13:00	SL.56 Dennis Schade: <i>Opening the 'Druggable Space' using phenotypic stem cell screening platforms</i>	13:00 SL.60 Paola Minghetti: <i>The regulatory approach for old active ingredients in complex delivery systems</i>
13:30	SL.57 Brinton Seashore-Ludlow: <i>HTS-compatible target engagement assays</i>	13:20 SL.61 Beat Flühmann: <i>Current practice of EU regulators approving</i>

	<i>for drug discovery and beyond</i>	<i>nanosimilars and subsequent need for education of HCP</i>
14:00	SL.58 Paula Perez-Pardo: <i>Positive effects of tryptophan-2,3-dioxygenase inhibitors on motor function, cognition and gastrointestinal symptoms in a mouse model of Parkinson's disease</i>	13:40 SL.62 Sumit Arora: <i>Modeling in vitro skin permeation experiments to mechanistically understand in vivo dermal absorption: Application of in vitro-in vivo extrapolation (IVIVE) and physiological based pharmacokinetic (PBPK) modeling using testosterone as model drug</i>
14:15	SL.59 Eugen Proschak: <i>Simultaneous treatment of hyperglycemia, hypertension, and dyslipidemia in metabolic syndrome using a designed multitarget ligand</i>	14:00 SL.63 Panos Macheras: <i>Drug delivery using nature's emulsion: milk</i>
		14:15 SL.64 Ebru Basaran: <i>Voriconazole incorporated inclusion complexes for improved ocular delivery</i>
14:30 – 15:00	Closing ceremony (lecture hall H3)	