

EUFEPS Virtual Annual meeting 2021 – Bridging the gap between the patient and product design

Preliminary Program June 7 - all sessions live

(All plenary lectures and the parallel session to the left in **Room A** on platform, parallel session to the right in **Room B**)

09:00-09:10	Welcome to EUFEPS annual science meeting Prof. Dr. Dieter Steinhilber, Goethe University, Germany/ President EUFEPS, Prof. Bertil Abrahamsson, AstraZeneca, Sweden/Swedish Pharmaceutical Society	
	Quality control session (through development to commercial - ICH Q12 and Q14 new tools and approaches)	Challenges in the development of orally inhaled medicines
	Chairs: Jukka Rantanen, University of Copenhagen, Denmark and Anders Karlsson, AstraZeneca, Sweden	Chairs: Göran Alderborn, Uppsala University, Sweden and Sofia Mattsson, Umeå University, Sweden
09:15	Role of analytical chemistry in drug development – today and tomorrow <i>Mareike Lutz, Chalmers University of Technology, Sweden</i>	Biopharmaceutics: The key to optimising inhaled medicines <i>Ben Forbes, School of Cancer and Pharmaceutical Sciences, Faculty of Life Sciences and Medicine, King's College London, UK</i>
09:40	<i>Design of Experiment (DoE) based optimization and in-vitro cell culture studies of piroxicam loaded hybrid nanoparticles for prostate cancer</i> <i>Ceyda Tuba Sengel-Turk, Ankara University, Turkey</i>	Inhalable Microparticles Embedding CaP Nanoparticles for Heart Target <i>Eride Quarta, University of Parma, Italy</i>
09:55	Coffee Break	
10:10	Quality control – future aspects <i>Øyvind Holte, Norwegian Medicines Agency</i>	Particle engineering for pulmonary formulations <i>Regina Scherliess, Department of Pharmaceutics and Biopharmaceutics, Kiel University, Germany</i>
10:35	Gastrointestinal ion exchange model for LOKELMA <i>Johan Palm, AstraZeneca, Sweden</i>	Inhalable cyclosporine powder for immunosuppressive treatment <i>Davide D'Angelo, University of Parma, Italy</i>
10:50-11:15	Characterization and Quality Control of Biopharmaceuticals <i>Dennis Åsberg, Novo Nordisk, Copenhagen, Denmark</i>	RNA delivery: the Road from carrier-loading to ribosomes
		Chair: Fredrik Höök, Chalmers University of Technology, Sweden
		Lipid Nanoparticle Mode of Action measured by Single Cell Time-Lapse Imaging on Micro-Arrays <i>Joachim Raedler, Ludwig-Maximilians-University, Germany</i>

	Measurement and Metrology for the Digital Age	RNA delivery: the Road from carrier-loading to ribosomes
	Chairs: Alastair Florence, University of Strathclyde, UK and Jukka Rantanen, University of Copenhagen, Denmark	Chair: Fredrik Höök, Chalmers University of Technology, Sweden
11:25	Application of CT to understand pharmaceutical materials and processes; 3D analysis of materials and formulated systems, enable prediction of performance <i>Daniel Markl, University of Strathclyde, UK</i>	Cellular uptake and delivery of lipid nanoparticle formulated mRNA <i>Elin Esbjörner, Chalmers University of Technology, Sweden</i>
11:50	Future pharma grade cellulose derivatives - quality and characterization <i>Staffan Schantz, AstraZeneca, Sweden</i>	Cyclosporine A nanosuspension prepared with wet milling method using combined stabilizers: Pharmacokinetic and immunological evaluation in rats <i>Sıla Gülbağ Pınar, Süleyman Demirel University, Turkey</i>
12:05	Lunch break	
	Chairs: Alastair Florence, University of Strathclyde, UK and Jukka Rantanen, University of Copenhagen, Denmark	Chair: Gerrit Borchard, Swiss Academy of Pharmaceutical Sciences
13:00	Metrology in particle systems, data standards for advanced measurement, uncertainty and repeatability <i>Caterina Minelli, National Physical Laboratory, UK</i>	In-depth Critical Quality Attributes (CQAs) characterisation of dendrimer conjugates via orthogonal techniques <i>Silvia Sonzini, AstraZeneca, UK</i>
13:25	Hyperspectral Imaging – Data Science <i>José Manuel Amigo, University of Basque Country and Ikerbasque Basque Country, Spain</i>	Manufacturing of Nano-based Materials <i>Johannes Khinast, Graz University of Technology, Austria</i>
13:50-14:05	Design and development of DSPC:DAP: PDMAEMA-b-PLMA nanostructures: from the adumbration of their morphological characteristics to in vitro evaluation <i>Natassa Pippa, National and Kapodistrian University of Athens, Greece</i>	Semisolid NLC Dispersions: QbD Based Formulation Optimization and Ex Vivo – In Vivo Evaluation <i>Ulya Badilli, Ankara University, Turkey</i>

	Advanced pharmaceutical manufacturing - Challenge or opportunity for the pharmaceutical industry	Progress in Biopharmaceutics tools
	Chairs: Johannes Khinast, Graz University of Technology, Austria and Anette Larsson, Chalmers University of Technology, Sweden	Chairs: Christos Reppas, National and Kapodistrian University of Athens, Greece and Jenny Dressman, Goethe University, Germany
14:15	Material consumption vs representativity in continuous wet granulation development <i>Fanny Stauffer, UCB, Belgium</i>	Effect of surfactants and polar lipids structure on drug solubilization in aqueous and biorelevant media <i>Zahari Vinarov, Sofia University St. Kliment Ohridski, Bulgaria</i>

14:40	Continuous Manufacturing of a Pharmaceutical Coated Tablet by Direct Compression: Experiences from Commercial Operations <i>Stephen Conway, MSD</i>	The impact of the dynamic nature of the GI environment on drug and formulation behaviour <i>Patrick Augustijns, KU Leuven, Belgium</i>
15:05	Manufacturing and examination of vaginal drug delivery system by FDM 3D printing <i>Petra Arany, University of Debrecen, Hungary</i>	The impact of gastric acidity on concentrations of two lipophilic weak bases in the upper small intestine after single dose administrations to fasted adults: Comparison of BioGIT data with data in adults <i>Christina Kostantini, National and Kapodistrian University of Athens, Greece</i>
15:20	Coffee Break	
15:35	Continuous manufacturing during development of OSDs – Challenges and opportunities <i>Pirjo Tajarobi and Håkan Wikström, AstraZeneca, Sweden</i>	Progress in bio-enabling formulation design of Lipid-based drug delivery systems <i>Brendan Griffin, University College Cork, Ireland</i>
16:00	Rational Design of Advanced Pharmaceutical Manufacturing Processes <i>Johannes Khinast, Graz University of Technology, Austria</i>	PBPK modelling and in vitro biorelevant testing for prediction of in vivo performance in GI disease <i>Nikoletta Fotaki, University of Bath, UK</i>
16:25-16:40	Preparation and characterization of spray dried powders of Itraconazole for inhalation <i>Chiara Ogliari, University of Parma, Italy</i>	Bridging the quantum gap: in silico screening and selection of precipitation inhibitor <i>Daniel Price, Merck</i>

Each lecture will include 5 min (short lecture 2 min) Q&A where questions are posted by chat and questions raised verbally by chair.