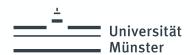


Conference programme

Novel formulation strategies for poorly water-soluble drugs

February 9th – 11th 2026

University of Münster / Germany



Conference Day 1 - 09 February 2026

Comici	chiec bay 1 - 05 i chiadiy 2020
11:00 13:00	Registration Welcome Session Prof. Dr. Denise Steiner (University of Münster) and Dr. Cornelia D. Sonntag (Galenus Foundation)
Scientific	Session 1 – Nanoparticular formulations
13:15	Keynote Lecture: Nanocrystal drug product development in the pharmaceutical industry: Risks, screening strategies, and implementation challenges J. Sundermann AbbVie Deutschland GmbH & Co. KG
14:00	Nano meets fluidized bed: Improving the bioavailability of poorly soluble drugs A. Grave and S. Shi Glatt Pharmaceutical Services GmbH & Co. KG
14:20	A nanotechnological approach to the encapsulation of poorly soluble compounds using the solvent displacement method B. Benbakrim ^{1,2} , N. Taarji ² and A. Hafidi ¹ 1-Laboratory of Agri-Food, Biotechnology and Valorization of Plant Resources, Cadi Ayyad University, Morocco 2-College of Agriculture & Environmental Sciences, Agrobiosciences Program Mohamed VI Polytechnic University Morocco
14:40	Parenteral delivery strategies for poorly soluble PROTACs: Comparative development of liposomal, albumin-based, and cyclodextrin formulations for ACBI2 and ACBI3 M. Jaki¹, L. Dari¹, M. Wittmann² and R. Süss¹ ¹University of Freiburg, Institute of Pharmaceutical Sciences, Department of Pharmaceutics, Germany ²Boehringer Ingelheim Pharma GmbH & Co. KG, Germany
15:00	Coffee Break



Conference Day 1 - 09 February 2026

Scientific Session 1 – Nanoparticular formulations Perfluorocarbon-nanoemulsions as artificial oxygen carriers for medical applications 15:30 K.B. Siebecke¹, M.A.Schroer², F. Nocke³ and J.-E. Sydow³ ¹Institute of Physiology, University Hospital Essen, University of Duisburg-Essen, Germany ²Nanoparticle Process Technology (NPPT), Faculty of Engineering, University of Duisburg-Essen, Germany ³Institute of Physiological Chemistry, University of Duisburg-Essen, University Hospital Essen, Germany 15:50 Developing super stable perfluorocarbon-based artificial oxygen carriers by high pressure homogenization F. Nocke¹, M. Penzel¹ and K.B. Siebecke² ¹Institute of Physiological Chemistry, University Hospital Essen, University of Duisburg-Essen, Germany ²Institute of Physiology, University Hospital Essen, University of Duisburg-Essen, Germany Bond lifetime in dynamic covalently crosslinked hydrogels determines the release of nanoparticular vaccines 16:10 F. Hauswirth and M. Breunig Department of Pharmaceutical Technology, University of Regensburg, Germany 16:30 Panel Discussion: Options after the PhD – PostDocs present their career paths L.M. Spindler (Boehringer Ingelheim Pharma GmbH & Co. KG) E. Preis (Friedrich Schiller University Jena) B. Winkeljann (Ludwig-Maximilians-Universität München and RNhale) 18:00 Come together at the PharmaCampus



Conference Day 2 - 10 February 2026

Scientific	Session 2 – Amorphous solid dosage forms
9:00	Invited Lecture: The many faces of disorder: Revealing hidden diversity in amorphous forms of drugs <u>I.C.B. Martins</u> Department of Pharmacy, University of Copenhagen, Denmark
9:30	Particle-based silica aerogels as carrier systems for poorly water-soluble drugs J. Pierick ^{1,2} , J.H. Finke ^{1,2} and G. Garnweitner ¹ ¹ Institute for Particle Technology (iPAT), Technische Universität Braunschweig, Germany ² Center of Pharmaceutical Engineering (PVZ), Technische Universität Braunschweig, Germany
9:50	Hot-melt extrusion of a ternary mixture with cannabidiol: A study on drug recrystallization stability and content E. Breitbach ^{1,2} and H. Bunjes ^{1,2} ¹ Technische Universität Braunschweig, Institut für Pharmazeutische Technologie und Biopharmazie, Germany ² Technische Universität Braunschweig, Zentrum für Pharmaverfahrenstechnik - PVZ, Germany
10:10	Lossless shear mixing of milligrams for the development of amorphous solid dispersions G. Winkler, J. Nikolaus, A. Bramboeck and D. Treffer MeltPrep GmbH, Austria
10:30	Predictive temperature modeling for extrusion of amorphous solid dispersions S. Meyer, J. Winck and M. Thommes TU Dortmund University, Germany
10:50	In-situ amorphization of poorly soluble naproxen using laser powder bed fusion 3D printing F. Engelsing ^{1,2} , A. Grave ² , R.J. Kok ¹ and J. Quodbach ¹ Division of Pharmaceutics, Utrecht Institute of Pharmaceutical Sciences (UIPS), Utrecht University, the Netherlands Glatt Pharmaceutical Services GmbH & Co. KG, Germany



Conference Day 2 - 10 February 2026

11:10 **Coffee break**

Scientific Session 3 – Cell-based systems for in vitro evaluation

11:40 Invited Lecture: FlowCube as a novel in-vitro tool for cell interaction studies under flow conditions

M. Anzengruber

University of Vienna, Division of Pharmaceutical Technology and Biopharmaceutics, Austria

12:10 Development and characterization of polymeric nanomicelles of fluticazone furoate and in vitro evaluation on BEAS2B cell line

M. Çelik Tekeli¹, E. Uzunhisarcikli² and A.N. Oktay³

¹Department of Pharmaceutical Technology, Erciyes University Faculty of Pharmacy, Turkey

²Department of Pharmacology, Erciyes University Faculty of Pharmacy, Turkey

³Department of Pharmaceutical Technology, Gulhane Faculty of Pharmacy, University of Health Sciences, Turkey

12:30 In vitro/ in vivo correlation of drug absorption studies using the Ocular DynaMiTES

M. Düttmann¹ and S. Reichl²

¹TU Braunschweig, Institut für Pharmazeutische Technologie und Biopharmazie, Germany

²TU Braunschweig, Zentrum für Pharmaverfahrenstechnik - PVZ, Germany

12:50 Lunch break



Conference Day 2 - 10 February 2026

Poster Session Poster Session		
13:30	Poster Short Talks	
14:30	Poster Session and Coffee Break	
15:30	Keynote Lecture: Contemporary models and pharmaceutical production – From a virtual intestine to 3D printed medicines <u>C. Bergström</u> Department of Pharmacy, Uppsala University, Sweden	
16:15	Optional: Tour of the Institute of Pharmaceutical Technology and Biopharmaceutics, University of Münster	
19:00	Conference Dinner Location: 1648 Café / Lounge / Gastronomie (Heinrich-Brüning-Str. 5, Münster)	



Conference Day 3 - 11 February 2026

Scientific Session 4 – Lipid/polymer-based systems Invited Lecture: From insoluble to effective: A liquid-lipid nanocapsule toolbox for poorly water-soluble compounds 9:00 S. Hester Institute of Pharmaceutical Technology and Biopharmaceutics, University of Münster, Germany 9:30 Fab' enabled active targeting to steer delivery of poorly water-soluble drugs with HSA nanocapsules T. Kurze and S. Hester Institute of Pharmaceutical Technology and Biopharmaceutics, University of Münster, Germany 9:50 Stability of lipid nanoparticles embedded in hydrogel-based pellets: Effects of preparation and drying N. Hendricks^{1,2} and H. Bunjes^{1,2} ¹Technische Universität Braunschweig, Institut für Pharmazeutische Technologie und Biopharmazie, Germany ²Technische Universität Braunschweig, Zentrum für Pharmaverfahrenstechnik - PVZ, Germany 10:10 Development of stimuli-responsive polymer-based drug delivery systems (crosLNPs) by thermodynamic profiling of lipidpolymer interactions J. Lembeck¹ and H. Heerklotz^{1,2,3} ¹University of Freiburg, Institute of Pharmaceutical Sciences, Department of Pharmaceutics, Germany ²University of Freiburg, Centre of Biological Signaling Studies (BIOSS), Germany ³University of Toronto, Leslie Dan Faculty of Pharmacy, Canada 10:30 **Coffee Break**



12:30

Conference Day 3 - 11 February 2026

Closing Session

Scientific Session 5 – Innovative technologies Invited Lecture: Stimuli-responsive systems: What can we achieve? 11:00 E. Preis^{1,2} ¹Friedrich Schiller University Jena, Institute of Pharmacy, Department of Pharmaceutical Technology and Biopharmaceutics, Germany ²Philipps-Universität Marburg, Department of Pharmacy, Institute of Pharmaceutics and Biopharmaceutics, Germany 11:30 Vacuum-foamed porous solid dispersions as a method for small-scale development for foam extrusion release J. Zeppenfeld¹, A. Bramboeck², D. Treffer² and J. Winck¹ ¹TU Dortmund University, Germany ²MeltPrep GmbH, Austria 11:50 Dual-nozzle 3D printed mucoadhesive films for localized esophageal drug delivery F. Brokmann, S. Grzam, J. F. Kandzi and J. Krause University of Greifswald, Department of Biopharmaceutics and Pharmaceutical Technology, Germany 12:10 Dissecting the interplay of drug substances with bile and mucus L. Scheller¹, J. Kehrein¹, R. Bertermann², T. Zorn³, B. Engel¹, S. Hanio¹, M. Finze², T. Lühmann¹ and L. Meinel^{1,4} ¹University of Würzburg, Institute of Pharmacy and Food Chemistry, Germany ²University of Würzburg, Institute for Inorganic Chemistry, Germany ³University of Würzburg, Institute of Organic Chemistry, Germany

⁴Helmholtz Institute for RNA-Based Infection Research (HIRI), Helmholtz Center for Infection Research (HZI), Germany



Optional – Workshop: Dual Centrifugation 11 February 2026

13:30	Dual asymmetric centrifuge: Basic principle and applications
	C. Karst
	FlackTek Europe GmbH
14:00	Dual (symmetric) centrifuge: Basic principle and preparation of nanosized pharmaceutical formulations <u>U. Massing</u>
	University of Freiburg, Institute of Pharmaceutical Sciences, Department of Pharmaceutics, Germany
14:45	Coffee break and presentation of both types of dual centrifuges including equipment
15:15	Comparison of the performance of both types of dual centrifuges using the example of a lipid nanoemulsion N. Hellmund
	Institute of Pharmaceutical Technology and Biopharmaceutics, University of Münster, Germany
15:35	Formulation screening, parameter optimization and scale-up of grinding processes with dual centrifuge and agitator bead mills
	S. Mende
	NETZSCH Feinmahltechnik GmbH, Selb, Germany
16:20	Closing Session Workshop