



Technische
Universität
Braunschweig



6th International Symposium on Pharmaceutical Engineering Research

SPhERe

CONFERENCE DATE

October 08 - 10, 2025

TU Braunschweig • Center of Pharmaceutical Engineering
organized with iTUBS

CONFERENCE DAY 1 • 08 OCTOBER 2025

10:00 Check-In

11:30 **OPENING**

Opening by Prof. Dr. Carsten Schilde, Conference Chair, TU Braunschweig

Welcome address by Prof. Dr. Manfred Krafczyk, Vice President for Digital Transformation and Sustainability, TU Braunschweig, Germany

KEYNOTE LECTURE

Chair: **Carsten Schilde**

11:45 **Predictive Modeling and Digital Twins: Shaping the Future of Pharmaceutical Development**

Johan Remmelgas, PhD - Director, Modeling & Simulation, Sustainable Innovation and Transformational, Excellence Pharmaceutical Technology & Development
AstraZeneca, Sweden

12:30 Lunch Break

SESSION I: Analytics, PAT

Chair: **Matthias Schiedel**

13:30 **INVITED LECTURE**

Deploying Bioanalytics for Decrypting PK/PD Relationships

Katharina Rox^{1,2}; Metzen A^{1,2}

¹Department of Chemical Biology, Helmholtz Centre for Infection Research (HZI)
Braunschweig, Germany

²German Centre for Infection Research (DZIF), Partner-site Hannover-Braunschweig, Germany

13:55 **THz-TDS as a PAT Tool for Physical Tablet Characteristics: Simultaneous Quantification of Crystallinity, Mass, Thickness, and Porosity**

Moritz Anuschek, Thomas Kvistgaard Vilhelmsen

Novo Nordisk A/S, CMC Oral Product Development, Denmark

14:10 **Advanced Synthesis Strategies for Molecularly Imprinted Polymers: Targeted Extraction of Thymol via Design of Experiments**

Dolejsova Sekerova Lada, Smidova Anna, Krizova Anna, Vyskocilova Eliska

Department of Organic Technology, University of Chemistry and Technology Prague, Czech Republic

14:25 **Next-Generation Laser Diffraction for Precision Analysis of Particles for Inhalation**

U. Köhler¹, T. Stübinger¹, A. Borodin¹, D. Jupke², D. Ivanov², J. H. Finke², K. Vorländer², C. Schilde², A. Kwade²

¹Sympatec GmbH, Germany

²Institute for Particle Technology and Center of Pharmaceutical Engineering (PVZ),
TU Braunschweig, Germany

14:40 Break

SESSION II: SCALE-UP / SCALE-DOWN PROCESSES

Chair: **Stephan Scholl**

- 15:10 **INVITED LECTURE**
From Microscale Synthesis to Bioactivity: Rapid Discovery of Serine Protease Inhibitors
Dmitrii V. Kalinin
Institute of Pharmaceutical and Medicinal Chemistry, University of Münster, Germany
- 15:35 **Development of a Model to Predict Die Filling Under Suction for Different Scales and Setups of Rotary Tablet Presses**
Lars Wagner^{1,2}; Ann Kathrin Schomberg^{1,2}; Arno Kwade^{1,2}; Jan Henrik Finke^{1,2}
¹ Institute for Particle Technology (iPAT), ² Center of Pharmaceutical Engineering (PVZ)
TU Braunschweig, Germany
- 15:50 **Impact of Feed Frame Design on the Die Filling Behavior of Pharmaceutical Excipients on a Compaction Simulator**
Ben Kohlhaas^{1,2}, Anna Schönberg^{1,2}, Jan Henrik Finke^{1,2}
¹ Institute for Particle Technology (iPAT), ² Center of Pharmaceutical Engineering (PVZ)
TU Braunschweig, Germany
- 16:05 **“Two-in-One” - Reconsidering Continuous Melt Granulation**
Maximilian Hölzel, Jens Bartsch
Labor für Feststoffverfahrenstechnik, TU Dortmund
Dortmund, Germany
- 16:20 **Scale-Up of Processes for Separators from Pilot Scale to Production Scale**
Thomas Homann¹, Michael Schulz²
¹GEA Westfalia Separator Group GmbH, Germany
²GEA Germany GmbH, Germany
- 16:35 Break

POSTER SESSION

Chair: **Stephan Reichl**

- 17:15 Poster Short Talks
- 18:10 Poster Party

END OF DAY

CONFERENCE DAY 2 • 09 October 2025

08:00 Check-In

KEYNOTE LECTURE

Chair: Heike Bunjes

08:30 **Orodispersible Minitablets for the Individual Treatment of Children - From the Idea to the Market**

Jörg Breitzkreutz, Institute of Pharmaceutics and Biopharmaceutics
Heinrich-Heine-Universität Düsseldorf, Germany

SESSION III: SOLID DOSAGE FORMS

Chair: Heike Bunjes

09:15 **INVITED LECTURE**

Solid Dosage Form Development – Challenges and Visions

Susanne Page
Pharmaceutical R&D, F. Hoffmann-La Roche Ltd., Switzerland

09:40 **Is There a Limit for Vitamin E TPGS to Increase API Release from High Drug-load ASDs?**

I. Fahrig¹, S. Walter², S. Kyeremateng², M. Degenhardt², C. Brandenbusch¹, G. Sadowski¹
¹Laboratory of Thermodynamics, TU Dortmund, Germany,
²AbbVie Deutschland GmbH & Co. KG, Development Sciences, R&D, Germany

09:55 **Aspects of Sustainability in Amorphous Drug and Dosage Form Design**

Thomas Rades
Copenhagen University, Denmark

10:10 **Application of an Extended In-Die Compressibility Model to Elucidate Material-Dependent Influences of Compaction Kinetics**

M. S. Brunotte^{1,2}, M. Juhnke³, A. F. Amado Becker³, A. Kwade^{1,2}, J. H. Finke^{1,2}
¹ Institute for Particle Technology, TU Braunschweig, Germany
² Center of Pharmaceutical Engineering (PVZ), TU Braunschweig, Germany
³ F. Hoffmann-La Roche AG, Switzerland

10:25 **Particle-Based Silica Aerogels as Drug Delivery Systems**

Jennifer Pierick, Jan Henrik Finke, Georg Garnweitner
Institute for Particle Technology and Center for Pharmaceutical Engineering (PVZ),
TU Braunschweig, Germany

10:45 Break

SESSION IV: SEMI-SOLID & LIQUID DOSAGE FORMS

Chair: Jan Henrik Finke

11:00 **INVITED LECTURE**

Regulatory Driven Development of Topical Semisolid Generic Drug Products: Impact of New EMA Guideline

Snežana Savić, Tanja Ilić
Department of Pharmaceutical Technology and Cosmetology, University of Belgrade-Faculty of Pharmacy, Serbia

11:25 **Influence of Salts and pH on Solubility and Partitioning of Active Pharmaceutical Ingredients**

Espen Fritschka, Gabriele Sadowski
Laboratory for Thermodynamics, TU Dortmund University, Germany

- 11:40 **Use of Nickel-Based Membranes in Premix Membrane Emulsification**
C. Heidenreich^{1,2}, J. M. Lück³, D. Jupke^{2,4}, J. H. Finke^{2,4}, A. Kwade^{2,4}, J. Rösler³,
H. Bunjes^{1,2}
¹Institute of Pharmaceutical Technology and Biopharmaceutics, TU Braunschweig, Germany
²Center for Pharmaceutical Engineering, TU Braunschweig, Germany
³Institute for Materials Science, TU Braunschweig, Germany
⁴Institute for Particle Technology TU Braunschweig, Germany
- 11:55 **Antisolvent Crystallisation with Excipients as Heteronucleation Templates – a Method for API Co-Processing?**
Emilia Jakubowska^{1,2}, František Štěpánek¹
¹Department of Chemical Engineering, University of Chemistry and Technology Prague, Czech Republic
²Chair and Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poland
- 12:10 **Innovative Uses of Phospholipids as Excipients in Conventional Liquid and Solid Dosage Forms**
Andreas Erthle
Lipoid GmbH, Germany
- 12:25 **Preparation of Lipid Nanoemulsions Using a CFD Simulation Aided Dual Centrifugation Approach**
Nico Hellmund, Venkatesh Inguva, Denise Steiner
Department of Pharmaceutical Technology and Biopharmaceutics, University of Muenster, Germany
- 12:45 Lunch Break

SESSION V: DIGITAL MODELS IN PHARMACEUTICAL DEVELOPMENT

Chair: Carsten Schilde

- 14:15 **INVITED LECTURE**
Opportunities and Challenges in Digital Product Design for the Pharmaceutical Industry
Thomas Forqber
RCPE GMBH, Graz, Austria
- 14:40 **Advancing Lyophilization through PAT-Enabled Digital Twins and Mechanistic Modeling**
Alex Juckers, Petra Knerr, Frank Harms,
Martin Christ Gefriertrocknungsanlagen GmbH, Germany
- 14:55 **IntelliPress - AI-driven Scale-Up of Tablet Manufacturing through Inline Prediction of Critical Quality Attributes**
J. Streckenbach¹, N. Kuehnel¹, P. Braun¹, M. Rosch¹, F. Guetter¹, D. Dormagen^{2,3},
T. Landgraf^{2,3}
¹ KORSCH AG, Germany
² CIATA UG, Germany
³ Freie Universität Berlin, Germany
- 15:10 **DEM Study Investigating the Effect of Particle Shape on Compaction of Realistic Non-Spherical Particles Using Convolutional Neural Network**
K. Giannis^{1,2}, C. Thon¹, J. Guo^{1,2}, J. H. Finke^{1,2}, A. Kwade^{1,2}, C. Schilde^{1,2}
¹ Institute for Particle Technology (iPAT), TU Braunschweig, Germany
² PVZ - Center of Pharmaceutical Engineering, TU Braunschweig, Germany
- 15:30 Break

SPECIAL GUEST SESSION

Chair: Matthias Schiedel

- 15:45 **AI in Pharmaceutical Sciences: Let's talk about data**
Oliver Koch
University of Münster, Germany
- 16:45 END OF DAY
- 18:00 Conference Dinner
Restaurant: Zucker, Frankfurter Straße 2 on the ARTmax area, 38122 Braunschweig

CONFERENCE DAY 3 • 10 OCTOBER 2025

- 08:00 Check-In

CAREER SESSION

Chair: Iordania Constantinou

- 08:30 Dr. Antje Begerad, GEA
Dr. Nicole Beißner, Bayer
PD Dr. Kerstin Wohlgemuth, TU Dortmund
Prof. Dr. Denise Steiner, Universität Münster
- 10:00 Break

SESSION VI: API Synthesis

Chair: Ludger Beerhues

- 10:15 **INVITED LECTURE**
Towards Novel Antibiotics: The Synthesis of Natural Product Analogues for Anti-Infective Medicinal Chemistry
Christian Ducho
Department of Pharmacy, Pharmaceutical and Medicinal Chemistry, and PharmaScience Hub (PSH), Saarland University, Germany
- 10:40 **Process Performance Optimization of the Continuous Vacuum Screw Filter for Varying Suspensions**
M. P. Meier, C. I. Eicken, D. A. Rysch, J. Marschner, K. Wohlgemuth
Laboratory of Plant and Process Design, TU Dortmund University, Germany
- 10:55 **Production of Kolanone in Engineered Yeast**
Yawen Gu¹, Lukas Ernst¹, Ludger Beerhues^{1, 2}, Benye Liu^{1, 2}
¹ Institute of Pharmaceutical Biology, TU Braunschweig, Germany
² Center of Pharmaceutical Engineering (PVZ), TU Braunschweig, Germany
- 11:10 **In-Situ Nucleation and Fouling Management in Continuous Slug Flow Crystallization for Reliable Particle Design**
Maximilian Rainer Kattner, Max Charles Heischmann, Esra Topal, Fabian Mathias Doedens, Kerstin Wohlgemuth
Laboratory of Plant and Process Design, TU Dortmund University, Germany
- 11:25 **From Measurement to Performance: Characterizing Density and Porosity of Pharmaceutical Products**
Sönke Wengler-Rust
Anton Paar Germany GmbH, Germany
- 11:40 Lunch Break

SESSION VII: MICROSYSTEMS FOR PHARMACEUTICAL PROCESSING

Chair: **Andreas Dietzel**

12:30 INVITED LECTURE

Enabling Materials for Biomicrofluidics: from Interactions with Biochemistry to Biology

Thomas E. Winkler

Micro- and Nanosystems, KTH Royal Institute of Technology, Sweden

Institute of Microtechnology, TU Braunschweig, Germany

12:55 Integration of Transparent Electrode Arrays for Impedance Monitoring in Microfluidic Cell Culture System

Liubov Bakhchova^{1,2}, Andreas Dietzel², Vadim Issakov¹

¹*Institute for CMOS Design, TU Braunschweig*

²*Institute of Microtechnology, TU Braunschweig*

13:10 Application of a Design of Experiments for the Development and Optimization of a Custom Cell Culture Medium for CI-hAELVi Cells

Hannah L. Hölterhoff, Stephan Reichl

Institute of Pharmaceutical Technology and Biopharmaceutics and Center of Pharmaceutical Engineering (PVZ), TU Braunschweig, Deutschland

13:25 LNP Synthesis Chip with In-situ Size Monitoring

E. Taiedinejad^{1,2}, C. Bausch³, J. Wittek³, M. Baßler³, A. Dietzel^{1,2}

¹*Institute of Microtechnology, TU Braunschweig, Germany*

²*Center of Pharmaceutical Engineering (PVZ), TU Braunschweig, Germany*

³*Fraunhofer Institute for Microengineering and Microsystems (IMM), Germany*

13:40 Evaluating the Printability and Mechanical Properties of Natural Gums - based Hydrogels for Bioprinting

M. Yousaf, H. Kutluk, L. Balters, S. Reichl, I. Constantinou

TU Braunschweig, Germany

13:55 SPhERe 2025 POSTER AWARDS

Remarks & Conclusions

6th International Symposium on Pharmaceutical Engineering Research – SPhERe

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Poster Session – Detailed Programme

Poster Exhibition

The poster tour starts immediately after the introductory presentation. All poster presenters are kindly asked to be available at the poster area (1st floor).

WEDNESDAY, 08 OCTOBER 2025

17:15 Short Introduction by Stephan Reichl

P-I: Analytics, PAT

- P-I.1 EXPOSING IPSC-DERIVED BRAIN PERICYTES-LIKE CELLS TO ITACONATE SUPPORTS METABOLIC TREATMENT APPROACH FOR INFLAMMATORY CONDITIONS AND OXIDATIVE STRESS
Franziska Buck, Institute of Microtechnology, TU Braunschweig
- P-I.2 AFFINITY CAPILLARY ELECTROPHORESIS AS A BINDING ASSAY FOR THE MEMBRANE PROTEIN CXCR2
Jana Haegner, Institute of Medicinal and Pharmaceutical Chemistry, TU Braunschweig
- P-I.3 EFFECT OF POLYMERIZATION MECHANISM ON THE PROPERTIES AND PERFORMANCE OF MOLECULARLY IMPRINTED POLYMERS
Anna Šmídová, Department of Organic Technology, UCT Prague
- P-I.4 ADVANCING PROCESS MONITORING AND MODELING FOR FILAMENTOUS MICRO-ORGANISMS IN BIOPROCESSING
Leonie Schumann, Institute of Biochemical Engineering, Center of Pharmaceutical Engineering, TU Braunschweig

P-II: Scale-Up / Scale-Down Processes

- P-II.1 LOW-GRADIENT MAGNETIC SEPARATION IN BIOTECHNOLOGY: PARAMETER IDENTIFICATION AND MODEL-GUIDED SCALE UP
Jan-Angelus Meyer, Institute of Biochemical Engineering, TU Braunschweig

P-II.2 DEVELOPMENT OF AN EXPERIMENTAL SETUP FOR THE QUANTIFICATION OF STICKING AND PICKING DURING TABLETING
Hasti Ghanadimaragheh, Institute for Particle Technology, Center of Pharmaceutical Engineering, TU Braunschweig

P-II.3 PROCESS CONCEPTUALIZATION FOR THE CONTINUOUS SYNTHESIS OF MOLECULARLY IMPRINTED POLYMERS
Sven Gutperl, TU Braunschweig

P-III: Solid Dosage Forms

P-III.1 CONTINUOUS RING LAYER GRANULATION OF SOLUBLE AND INSOLUBLE CARRIER MATERIALS
Lukas Bahlmann, Institute for Particle Technology, Center for Pharmaceutical Engineering, TU Braunschweig

P-III.2 EVALUATION OF PRILLING TECHNOLOGY FOR THE PRODUCTION OF PHARMACEUTICAL PELLETS
*Eva Denk, Glatt Pharmaceutical Services GmbH & Co. KG
Institute for Particle Technology, Center of Pharmaceutical Engineering, TU Braunschweig*

P-III.3 NANOPARTICLES MEET FLUID BED: A WAY TO IMPROVE THE BIOAVAILABILITY OF POORLY SOLUBLE DRUGS
Annette Grave, Glatt Pharmaceutical Services GmbH

P-III.4 RECONSTITUTION OF SOLID RNA FORMULATIONS AND STRUCTURAL CHARACTERIZATION
Manuel Reuning, Institute for Particle Technology, TU Braunschweig

P-III.5 TOWARDS AUTONOMOUS POWDER COMPACTION
Ermiya Özasan, Laboratories of Solids Process Engineering, TU Dortmund

P-III.6 STABILITY OF LIPID NANOPARTICLES EMBEDDED IN HYDROGEL-BASED PELLETS: EFFECTS OF PREPARATION AND DRYING
Nicklas Hendricks, Institute of Pharmaceutical Technology and Biopharmaceutics, Center of Pharmaceutical Engineering, TU Braunschweig

P-III.7 OPTIMIZATION OF POROUS SILICA CARRIER SYSTEMS FOR ENHANCED DRUG RELEASE AND STABILITY
Manuel Heck, Institute for Particle Technology, TU Braunschweig

P-III.8 STEP-WISE DISSOLUTION DSC ANALYSIS AS A TOOL IN THE DEVELOPMENT OF PARTIALLY SOLUBLE API/POLYMER SYSTEMS FOR INDIVIDUALIZED MEDICINE
Johannes Lang, Institute for Particle Technology, Center of Pharmaceutical Engineering, TU Braunschweig

P-III.9 ON THE IMPACT OF ACIDIC IMPURITIES ON LACTOSE CRYSTALLIZATION: DEIONIZATION AS EFFECTIVE PRETREATMENT
Silvio Trespi, Institute of Energy and Process Engineering, ETH Zurich

P-IV: Semi-Solid & Liquid Dosage Forms

P-IV.1 METHODS FOR STRESS TESTING OF MRNA LIPID NANOPARTICLES FOR LONG-TERM STABILITY ASSESSMENT
Paul Gottschalk, Institute of Pharmaceutical Technology and Biopharmaceutics, Center of Pharmaceutical Engineering, TU Braunschweig

- P-IV.2 THE IMPACT OF PEGYLATION ON PASSIVE LOADING OF CURCUMIN IN NANOEMULSIONS
Jelena Đoković, Department of pharmaceutical technology and cosmetology, University of Belgrade
- P-IV.3 CHARACTERIZING ADSORPTION AND INTERACTION OF LIPID NANOPARTICLE SYSTEMS TO THEIR PRIMARY PACKAGING MATERIAL
Johanna Reus, Fraunhofer Institute for Surface Engineering and Thin Films – IST Center of Pharmaceutical Engineering, TU Braunschweig
- P-IV.4 DRYING OF RNA DRUG DELIVERY SYSTEMS TO ENHANCE THEIR STABILITY
Daniel Jupke, Institute for Particle Technology, Center of Pharmaceutical Engineering, TU Braunschweig
- P-IV.5 ESTIMATING THE SURFACE AREA OF SOLID TRIMYRISTIN NANOPARTICLES: IMPLICATION FOR PROTEIN ADSORPTION
Anas Bagonaid, Institute of Pharmaceutical Technology and Biopharmaceutics, TU Braunschweig
- P-IV.6 NANOPARTICULATE GAS CARRIERS FOR ADJUSTABLE 3D-PRINTING OF TISSUES AND ORGANS
Pauline Breunig, Institute for Particle Technology, TU Braunschweig
- P-IV.7 INCORPORATING HYDROPHOBIC ION PAIRS OF POLYMYXIN B SULFATE INTO COLLOIDAL EMULSIONS
Johannes Schabbing, Institute of Pharmaceutical Technology and Biopharmaceutics, TU Braunschweig

P-V: Digital Models in Pharmaceutical Development

- P-V.1 ENHANCING TRS CALIBRATION EFFICIENCY FOR API QUANTIFICATION BY USING CHEMOMETRIC MODELLING
Katharina Beier, Small Molecule Development Science, AbbVie Deutschland GmbH & Co. KG
- P-V.2 PREDICTING THE MICROMIXING PERFORMANCE OF A LOW ASPECT RATIO LAMINATION MIXER FOR MICROFLUIDIC NANOPRECIPITATION WITH A DIGITAL TWIN
Songtao Cai, Institute of Microtechnology, Center of Pharmaceutical Engineering, TU Braunschweig
- P-V.3 INVESTIGATING THE EFFECT OF PHYSICOCHEMICAL AND MECHANICAL PROPERTY OF MRNA-LNP DURING SPRAY DRYING VIA CFD-DEM COUPLING
Jiqian Guo, Institute for Particle Technology, TU Braunschweig

P-VI: API Synthesis

- P-VI.1 ENGINEERING PSEUDOMONAS TAIWANENSIS TOWARDS THE PRODUCTION OF POLYPRENYLATED XANTHONES
Hamid A. H. Matari, Institute of Pharmaceutical Biology, TU Braunschweig
- P-VI.2 OPTIMIZATION, AUTOMATIZATION, AND UPSCALING OF PYRROLONE SYNTHESIS
Minhee Lee, Institute of Medicinal and Pharmaceutical Chemistry, Center of Pharmaceutical Engineering, TU Braunschweig

P-VII: Microsystems for Pharmaceutical Processing

- P-VII.1 SMARTMEMBRANE: ELECTRICAL SENSOR BRIDGING CELL CULTURE WITH AI
Victor Krajka, Institute of Microtechnology, Center of Pharmaceutical Engineering,
TU Braunschweig
- P-VII.2 ENGINEERING EXTRACELLULAR MATRIX MECHANICS IN ORGAN-ON-CHIPS FOR IMPROVED DRUG DISCOVERY AND DEVELOPMENT
Hazal Kutluk, Institute of Microtechnology, Center of Pharmaceutical Engineering,
TU Braunschweig
- P-VII.3 CYCLIC MECHANICAL STRAIN MODULATES UPTAKE AND RETENTION OF DNA-FUNCTIONALIZED SWCNTS IN VITRO
Jonas Finauer, Institute of Microtechnology, TU Braunschweig
- P-VII.4 CHARACTERIZATION OF A NOVEL MURINE BRAIN ENDOTHELIAL CELL LINE FOR IN VITRO MODELLING OF THE BLOOD-BRAIN BARRIER
Hillary Linda Schulz, Institute of Pharmaceutical Technology and Biopharmaceutics,
Center of Pharmaceutical Engineering, TU Braunschweig
- P-VII.5 CLEANROOM-FREE FABRICATION OF ULTRATHIN, ULTRAPOROUS MEMBRANES
Jeroen Bugter Institute of Microtechnology, Center of Pharmaceutical Engineering,
TU Braunschweig
- P-VII.6 IMPEDANCE FLOW CYTOMETRY FOR THE DETECTION OF ELECTROGENIC MICRO-ORGANISMS
Mohadeseh Mozafari, Institute of Microtechnology, TU Braunschweig
- P-VII.7 IN-VITRO/IN-VIVO CORRELATION OF A DYNAMIZED TISSUE MODEL OF THE CORNEA IN THE PHARMACOKINETIC TESTING OF OPHTHALMIC DRUGS
Michelle Düttmann, Institute of Pharmaceutical Technology and Biopharmaceutics, Center
of Pharmaceutical Engineering, TU Braunschweig
- P-VII.8 DEVELOPMENT OF A SPLIT LUCIFERASE COMPLEMENTATION ASSAY TO INVESTIGATE TIGHT JUNCTION MODULATION
Antonia Hinze, Institute of Pharmaceutical Technology and Biopharmaceutics,
TU Braunschweig
- P-VII.9 FUNCTIONALIZATION OF SPIONS FOR APPLICATION AS MPI-TRACEABLE MRNA CARRIERS
Sandhya Kumar, Institute for Particle Technology, TU Braunschweig
- P-VII.10 MICRO-ELECTRICAL IMPEDANCE TOMOGRAPHY FOR REAL-TIME IMAGING OF BIOLOGICAL SAMPLES
Chang Liu, Institute of Microtechnology, TU Braunschweig
- P-VII.11 TOWARDS A SPATIOTEMPORAL MAPPING PLATFORM FOR THREE-DIMENSIONAL CELL CULTURES
Tammy Sue-Wuen Leung, Institute of Microtechnology, TU Braunschweig



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Poster Session Short Talks – Programme

A dedicated poster session is preceded by an introductory presentation. Please note that your presentation time is limited to 2 minutes per poster. The detailed poster programme below lists only the presenting authors and their affiliations.

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- P-VII.2 ENGINEERING EXTRACELLULAR MATRIX MECHANICS IN ORGAN-ON-CHIPS FOR IMPROVED DRUG DISCOVERY AND DEVELOPMENT
Hazal Kutluk, Institute of Microtechnology, Center of Pharmaceutical Engineering, TU Braunschweig
- P-VII.3 CYCLIC MECHANICAL STRAIN MODULATES UPTAKE AND RETENTION OF DNA-FUNCTIONALIZED SWCNTS IN VITRO
Jonas Finauer, Institute of Microtechnology, TU Braunschweig
- P-VII.4 CHARACTERIZATION OF A NOVEL MURINE BRAIN ENDOTHELIAL CELL LINE FOR IN VITRO MODELLING OF THE BLOOD-BRAIN BARRIER
Hillary Linda Schulz, Institute of Pharmaceutical Technology and Biopharmaceutics, Center of Pharmaceutical Engineering, TU Braunschweig

18:10 GET TOGETHER