

third announcement

# 14<sup>th</sup> World Meeting on Pharmaceuticals, Biopharmaceutics and Pharmaceutical Technology

# Vienna, Austria

18 - 21 March 2024

including short talk session

# PBP

## WORLD MEETING

in combination with

# ResearchPharm<sup>®</sup>

International Exhibition for R&D



[www.worldmeeting.org](http://www.worldmeeting.org)

# 14<sup>th</sup> World Meeting on Pharmaceuticals, Biopharmaceutics and Pharmaceutical Technology

Vienna, Austria, 18 - 21 March 2024

In continuation of the very successful scientific meetings in Budapest, Paris, Berlin, Florence, Geneva, Barcelona, Malta, Istanbul, Lisbon, Glasgow, Granada, Rotterdam and due to the COVID crisis in 2021 in a virtual format, the 14<sup>th</sup> World Meeting on Pharmaceuticals, Biopharmaceutics and Pharmaceutical Technology will be held in Vienna, Austria in 2024.

This conference has gained an ever increasing impact among the pharmaceutical scientists: With more than 1000 submitted abstracts and more than 1300 participants (before COVID crisis) it has become a well-established major meeting attracting scientists from all over the world. It is organized every two years, in March or April of the even years.

The entire spectrum of topics ranging from engineering aspects of the manufacturing process, the portfolio of commercially available excipients enabling formulation of a large variety of medicinal products, the underlying physico-chemical principles, cutting-edge characterization techniques as well as potential pitfalls and hurdles to be overcome during product development, manufacturing and characterisation will be addressed.

The conference will be held on 3.5 days: from Monday (noon) until Thursday (evening). From Tuesday to Thursday, 4 parallel sessions with oral presentations will be held:

2 sessions on industry-related topics, presented by distinguished invited speakers, giving overviews on the current state of the art in the respective fields

2 sessions with short talks selected from submitted abstracts, presenting the latest research findings in the broad field of Pharmaceuticals, Biopharmaceutics and Pharmaceutical Technology.

During the entire conference, the accompanying exhibition ResearchPharm® provides a cross-disciplinary platform for pharmaceutical scientists working in all fields of drug development in industry, academia and regulatory bodies. This exhibition is steadily growing and offers the possibility to present and learn about the newest trends and products in the area of pharmaceutical ingredients, developing and processing equipment, analytical technologies, medicinal products, medical devices and contract manufacturing.

In addition, young and experienced scientists from academia and industry will present their latest research achievements in the form of poster presentations, allowing for fruitful scientific exchanges with the authors.

The meeting is intended to bring together people working in fundamental and applied academic research, in the chemical and pharmaceutical industry and the regulatory field, offering the opportunity to initiate fruitful discussions and collaborations.

The organising committee cordially invites you to join the 14<sup>th</sup> World Meeting and would be glad to welcome you in Vienna, Austria!

Paolo Caliceti  
President ADRITELF



Juergen Siepmann  
President APGI



Joerg Breitsch  
President APV



## Participating societies



APIS  
Academy of  
Pharmaceutical  
Sciences

EASP  
Estonian Academical  
Society of Pharmacy



Società Chimica Italiana  
Divisione di Tecnologia  
Farmaceutica



PHG  
ÖSTERREICHISCHE  
PHARMAZEUTISCHE  
GESELLSCHAFT



# Scientific programme

## Monday, 18 March 2024

13:00 – 13:45	Opening Ceremony	Exhibition
13:45 – 14:45	Key note lecture	
14:45 – 15:30	Coffee break	
15:30 – 17:30	Hot topic lectures	
17:30 – 19:00	Welcome Reception	

### Key note lecture

13:45 - From graduate student to research scientist  
14:45 - moving a technology to commercialization:  
KinetiSol Dispersing  
Bill Williams, University of Texas, USA

14:45 - 15:30 Coffee break/exhibition

### Hot topic session

15:30 - Challenges with Ex-Vivo CAR-T cell therapies and  
16:10 outlook into next generation In-Vivo concepts  
Sabine Desset-Brethes, Novartis, Switzerland

16:10 - Sustainability challenges and solutions over the life-  
16:50 cycle of medicines  
Tiina Sikanen, University of Helsinki, Finland

16:50 - Advancing artificial intelligence tools in drug  
17:30 formulation development  
Brendan Griffin, University of Cork, Ireland

17:30 - 19:00 Welcome reception

## Tuesday, 19 March 2024

09:00 – 11:00	Invited talks	Short talks	Posters Exhibition
11:00 – 11:30	Coffee break		
11:30 – 12:00	Award session		
12:00 – 13:00	Plenary lecture		
13:00 – 15:00	Lunch		
15:00 – 17:00	Invited talks	Short talks	

### Invited talks: Excipients: innovation, regulation, sustainability

09:00 - Overview on sustainability supply of lipid-based  
09:40 excipient  
Laurent Schubnel, Gattefossé, France

09:40 - Hilopro - a high concentration, low viscosity,  
10:20 subcutaneous mAb delivery platform  
Surya Pai, Bhami Research Laboratory, India

10:20 - Development of excipient monographs from a  
11:00 manufacturer's perspective  
Michael Radius, Lipoid, Germany

### Invited talks: What's new in nanotechnology and drug targeting?

09:00 - Harnessing hyaluronic acid-conjugates for  
09:40 improved glioblastoma local immunotherapy  
Alessio Malfanti, University of Padova, Italy

09:40 - Langerhans cell targeting via the skin for immune  
10:20 modulation  
Robert Wawrzinek, Cutanos, Austria

10:20 - Extracellular vesicles for drug delivery  
11:00 Florence Gazeau, University Paris Diderot, France

### Short talks: Pharmaceutical manufacturing and engineering

09:00 - Downstream processing and in vivo assessment  
09:20 of amorphous Abiraterone Acetate Dispersome®  
formulations  
Jumana Merchant, Zerion Pharma A/S, Copenhagen, Denmark

09:20 - Microdynamic flowability: a novel approach to  
09:40 powder flow analysis  
David Blanco, University of Helsinki, Finland

09:40 - Potentialities of lipid-based microspheres and  
10:00 microcapsules obtained by prilling in the field of  
personalized dosing  
Claire Delmas, Université Paris Saclay, France

10:00 - FDmix - a flow-optimized nanoparticle  
10:20 manufacturing platform across all flow ranges  
Bernhard Bobusch, FDX Fluid Dynamics, Berlin, Germany

10:20 - Fill finish operation and protein aggregation - what  
10:40 can we learn from a small scale?  
Milica Stankovic-Brandl, Research Center  
Pharmaceutical Engineering GmbH, Graz, Austria

10:40 - Process Characterization of Freezing and Thawing  
11:00 in Drug Substance Bottles - a Case Study  
Sarah Peláez, ten23 health, Basel, Switzerland

### Short talks: Advanced Drug Delivery Systems

09:00 - Enkephalins and enkephalinase inhibitors in  
09:20 squalene nanoparticles: a synergistic approach for  
chronic pain treatment  
Lucas Prades, University of Paris Saclay, France

09:20 - Electrospun Nanofibers for Ocular Drug Delivery  
09:40 Finnya Nienau, Martin-Luther-University Halle-  
Wittenberg, Germany

09:40 - Expandable gastroretentive system for effective  
10:00 management of diabetes  
Marco Uboldi, University of Milano, Italy

10:00 - 3D Printed Dual-Mechanism Drug Delivery Device:  
10:20 Merging Convection-enhanced and Iontophoretic  
Delivery Methods  
Hanxiang Li, University College London, United Kingdom

10:20 - PLGA intravitreal implants manufactured by  
10:40 supercritical foaming  
Iria Seoane Viaño, University of Santiago de Compostella, Spain

10:40 - Enzyme-responsive NPs: Enhancing endolysins'  
11:00 ability to eradicate Staphylococcus aureus biofilm  
Mariana Blanco Massani, University of Innsbruck, Austria



11:00 - 11:30 Coffee break/exhibition/posters

11:30 - 12:00 APV award session

### Plenary lecture

12:00 - 3D-Bioprinted cancer models for target discovery, drug development, and personalized therapy  
13:00 Ronit Satchi-Fainaro, Cancer Biology Research Center, Tel Aviv University, Israel

13:00 - 15:00 Lunch break/exhibition/posters

### Invited talks: Innovative manufacturing procedures

15:00 - End-to-end mechanistic and hybrid models of integrated and continuous pharmaceutical manufacturing processes  
15:40 Edward Close, Siemens, France

15:40 - 3D Printing for advanced drug delivery  
16:20 Atheer Awad, University of Hertfordshire, UK

16:20 - Digital pharmaceuticals – case studies of how it can support formulation development  
17:00 Martin Kuentz, University of Applied Sciences & Arts Northwestern Switzerland, Switzerland

### Invited talks: Delivery of proteins and peptides

15:00 - Development of inhaled proteins  
15:40 Nathalie Heuzé-Vourc'h, INSERM, Research Center for Respiratory Diseases, France

15:40 - Stability of antibody drugs on the rocky road from the hospital pharmacy to the oncology ward  
16:20 Hristo Svilenov, University of Ghent, Belgium

16:20 - The boon and bane of polysorbate 20/80 for protein formulations: current status  
17:00 Patrick Garidel, Boehringer Ingelheim, Germany

### Short talks: Modelling and simulation

15:00 - Molecular dynamics simulations of drugs solubilization into mixed bile salt/phospholipid micelles  
15:20 Fatmegyul Mustan, University of Sofia, Bulgaria

15:20 - Machine Learning-Assisted System of Models for Optimization of Directly Compressed Tablets Development Processes  
15:40 Mohammad Salehian, University of Strathclyde, Glasgow, United Kingdom

15:40 - CFD modeling of the hydrodynamics in the flow-through dissolution apparatus (USP 4)  
16:00 Pracha Bunyanichakul, Srinakharinwirot University, Nakhonnayok, Thailand

### Short talks: Continuous manufacturing

16:00 - Novel Concepts for Processing an Automation of Pharmaceutical End-to-End Manufacturing  
16:20 Lisa Kuchler, Research Center Pharmaceutical Engineering GmbH, Graz, Austria

16:20 - Integrated continuous twin-screw granulation - process investigation, scale-up and monitoring with artificial neural network-based soft sensors  
16:40 Petra Záhonyi, Budapest University of Technology and Economics, Budapest, Hungary

16:40 - Evaluating the benefits of continuous wet granulation process, not requiring a subsequent drying step  
17:00 Thorsten Cech, BASF SE, Ludwigshafen, Germany

### Short talks: Nanoparticles and Vesicles I

15:00 - Innovative siRNA-based lipid nanoparticles decorated with PEG alternatives (PNVP and PNMVA) to circumvent dilemma and immunogenicity  
15:20 Manon Berger, University of Liege, Belgium

15:20 - Ovarian accumulation of nanosized drug delivery systems – what matters?  
15:40 Henrike Lucas, Martin-Luther-University Halle-Wittenberg, Germany

15:40 - Structural Insights, Uptake Mechanisms and Stability of Nanostructured Lipid Carriers for Advanced Drug Delivery  
16:00 Ramona Jeitler, University of Graz, Austria

16:00 - Mucosa penetrating peptide functionalized liposomes for local drug delivery to the esophagus  
16:20 Silvia Franzè, University of Milan, Italy

16:20 - Controlling PEG-b-PTMC Polymersome Size through Microfluidic-Assisted Self-Assembly: Advancing the Understanding of Polymersomes Self-Assembly Mechanisms  
16:40 Angela Mutschler, University of Bordeaux, France

16:40 - Cholesterol-Modified Hyaluronic Acid Nanogels for Solubility Enhancement and Sustained Release  
17:00 Takashi Nakai, Asahi Kasei Corp., Fuji-Shu, Japan

## Wednesday, 20 March 2024

09:00 – 11:00	Invited talks	Short talks	Posters	Exhibition
11:00 – 11:30	Coffee break			
11:30 – 12:00	Award session			
12:00 – 13:00	Plenary lecture			
13:00 – 15:00	Lunch			
15:00 – 17:00	Invited talks	Short talks		
20:00 – 00:00	Gala dinner at the Hofburg			

### Invited talks: Innovations in oral drug delivery

09:00 - Amorphous solid dispersion release mechanisms  
09:40 Lynne Taylor, Purdue University, USA

09:40 - Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors  
10:20 Alex Abramson, Georgia Institute of Technology, USA

10:20 - Oral delivery and intestinal targeting of therapeutic nucleic acids  
11:00 Caitriona O'Driscoll, University of Cork, Ireland

### Invited talks: Parenteral controlled drug delivery

09:00 - Noninvasive in vitro and in vivo monitoring of parenteral controlled release DDS  
09:40 Karsten Maeder, University of Halle, Germany

09:40 - Drug delivery strategies for NCEs in cancer  
10:20 Jesús Santamaria Ramiro, University of Zaragoza, Spain

- 10:20 - Injectable hydrogels for ocular drug delivery  
11:00 Tina Vermonden, University of Utrecht, The Netherlands

### Short talks: Paediatric drug delivery

- 09:00 - Human milk and infant formula as enabling formulations for drug delivery to infants  
09:20 Ben J. Boyd, University of Copenhagen, Denmark
- 09:20 - Towards a standard vehicle toolbox: development and verification of standard vehicles for compatibility studies with oral paediatric drug products  
09:40 Carolin Eckert, University of Greifswald, Germany
- 09:40 - Development of an oral solution of vinorelbine to protect the oral mucosa during paediatric administration  
10:00 François Xavier Legrand, Université Paris Saclay, France

### Short talks: Excipients and raw materials

- 10:00 - Suitability Study on Microcrystalline Cellulose for Tablets Containing Pressure-Sensitive Substances  
10:20 Tomohisa Fujisawa, Asahi Kasei Corporation, Noboeoka, Japan
- 10:20 - A nitrosamine calculation tool to support risk mitigation  
10:40 Pauline Janssen, University of Groningen, The Netherlands
- 10:40 - Croscarmellose-sodium as pelletization aid - the role of multivalent cations  
11:00 Finn Siebel, Heinrich Heine University, Düsseldorf, Germany

### Short talks: Physical pharmacy and preformulation

- 09:00 - The enigmatic world of hydrochlorothiazide: polymorphs and their phase interconversions  
09:20 Inês Martins, University of Copenhagen, Denmark
- 09:20 - Development of an oral liquid formulation of ONC201 to limit its degradation and increase its aqueous solubility  
09:40 Maxime Annereau, Gustave Roussy Cancer Campus, Villejuif, France
- 09:40 - Nucleation of celecoxib glass: Determination of nucleation temperature and impact of nuclei on dissolution/physical stability performances  
10:00 Kohsaku Kawakami, National Institute for Material Science, Tsukuba, Japan

### Short talks: Quality control and PAT

- 10:00 - Real-time particle size measurement during fluidized bed processes using a convolutional neural network-based endoscopic imaging system  
10:20 Orsolya Péterfi, Budapest University of Technology and Economics, Budapest, Hungary
- 10:20 - Digital Real-time Release Testing in Continuous Tablet Production Lines  
10:40 Selma Celikovic, Research Center Pharmaceutical Engineering GmbH, Graz, Austria
- 10:40 - Influences of process parameters on the wet film thickness in continuous manufacturing of oral films  
11:00 Leonie-Lara Dorothea Uth, Heinrich Heine University, Düsseldorf, Germany

11:00 - 11:30 Coffee break/exhibition/posters

11:30 - 12:00 APGI award session

### Plenary lecture

- 12:00 - Observations which might inspire drug delivery scientists for guiding bio-therapeutics over biological barriers  
13:00 Stefaan de Smedt, University of Ghent, Belgium

13:00 - 15:00 Lunch break/exhibition/posters

### Invited talks: Continuous manufacturing & PAT

- 15:00 - Continuous Manufacturing of Oral Solid Dosage Forms: what's next?  
15:40 Bart Nitert, Janssen R&D, Beerse, Belgium
- 15:40 - Innovative continuous pharmaceutical technologies supported by AI and machine vision  
16:20 Zsombor Kristóf Nagy, University of Budapest, Hungary
- 16:20 - CPV 4.0: An industrial app to enhance the CPV (Continuous Process Verification)  
17:00 Marc Ramoneda, Appliant – Apps GMP Compliant S.L., Spain

### Invited talks: Cell therapies

- 15:00 - ATMPs on the move: overview and regulatory perspective  
15:40 Ralf Sanzenbacher, Paul Ehrlich Institute, Germany
- 15:40 - Ex vivo CAR-T cell concept & regulatory considerations  
16:20 speaker tbc
- 16:20 - In vitro and in vivo delivery kinetics of ionizable lipid nanoparticles encapsulating TNF- $\alpha$  siRNA and their efficacy on inflammatory models  
16:40 Qinglin Wang, University of Paris-Saclay, France
- 16:40 - Anti-miRNA103/107 lipid nanoparticles for the treatment of brain ischemic damage  
17:00 Virginia Campani, University of Naples Federico II, Italy

### Short talks: Bioavailability, absorption enhancement and in-vitro/in-vivo correlations

- 15:00 - Dissolution vs Solubility Mismatch in Intestinal Buffer  
15:20 Jozef Al-Gousous, Johannes Gutenberg University Mainz, Germany
- 15:20 - Novel simulated interstitial fluid media for predictive subcutaneous in vitro assays  
15:40 Iria Torres Terán, University of Greifswald/Sanofi Frankfurt, Germany
- 15:40 - In vitro Dissolution/Permeation tools to forecast ASDs bioavailability: comparison and mechanistic insights  
16:00 Patricia D. Nunes, Hovione Farmaciência S.A., Lisbon, Portugal

### Short talks: Topical and transdermal delivery

- 16:00 - Design of a novel PVA/PVP/PEGdiacid-based hydrogel-forming microneedle array patches for enhanced and sustained transdermal delivery of enfuvirtide  
16:20 Huanhuan Li, Queen's University Belfast, United Kingdom
- 16:20 - Thermotropic liquid crystals: an intelligent strategy for skin drug delivery  
16:40 Mariia Nesterkina, Helmholtz Institute for Pharmaceutical Research Saarland, Saarbrücken, Germany

16:40 - Novel method for testing antimicrobial effectiveness of local drug-delivery systems  
17:00 Kelli Randmäe, University of Tartu, Estonia

### Short talks: Nanoparticles and Vesicles II

15:00 - Biomimetic vesicles for glioblastoma treatment  
15:20 Giorgia Ailuno, University of Genoa, Italy

15:20 - Harnessing the potential of tissue-derived extracellular vesicle therapy for precision regenerative medicine  
15:40 Peng Lou, West China Hospital of Sichuan University, China

15:40 - A novel multidrug nanoparticle formulation assessment in a cardiac ischemia reperfusion model  
16:00 Natalie Lan Linh Tran, University of Paris Saclay and University of Namur, France

16:00 - Reproducible Synthesis of Biocompatible Albumin Nanoparticles Designed for Intra-Articular Delivery of Celecoxib to treat Osteoarthritis  
16:20 Rumi Khandelia, University College Dublin, Ireland

16:20 - Microfluidic development of biomimetic hybrid nanoparticles for homologous-targeting and enhanced therapy of cancer  
16:40 Ilaria Arduino, University of Bari, Italy

16:40 - Antioxidant-Based Nanoparticles Protect against Intracellular Reactive Oxygen Species in Neurological Disorders  
17:00 Thelma Akanchise, University of Paris Saclay, France

20:00 - 00:00 Networking event dinner

## Thursday, 21 March 2024

09:00 – 11:00	Invited talks	Short talks	Posters	Exhibition
11:00 – 11:30	Coffee break			
11:30 – 12:00	Award session			
12:00 – 13:00	Plenary lecture			
13:00 – 15:00	Lunch			
15:00 – 17:00	Invited talks	Short talks		

### Invited talks: Nucleic acid based drugs and vaccines

09:00 - Targeted lipid nanoparticles with RNAs are going beyond the liver: from vaccines to therapeutic genome editing  
09:40 Dan Peer, University of Tel Aviv, Israel

09:40 - mRNA drugs: an industrial perspective  
10:20 Shirang Karve, Sanofi, USA

10:20 - Extrahepatic delivery of siRNA, a theranostic approach  
11:00 Ick Chan Kwon, Institute of Science and Technology, Korea University, Korea

### Invited talks: Local drug delivery

09:00 - Drug targeting to the esophagus  
09:40 Christoph Rosenbaum, University of Greifswald, Germany

09:40 - Recent advances in drug-releasing vaginal rings  
10:20 Karl Malcolm, Queen's University of Belfast, UK

10:20 - Nanofibers as a local delivery system for vaginal probiotics  
10:40 Spase Stojanov, Institute of Jožef Stefan, Ljubljana, Slovenia

10:40 - Contact lenses that self-generate gold nanoparticles for light filters and photothermal therapy  
11:00 Carmen Alvarez-Lorenzo, University of Santiago de Compostela, Spain

### Short talks: 2D/3D printing

09:00 - Development of a 3D-printed polypill for breast cancer management  
09:20 Lucas Denis, Gustave Roussy Cancer Campus, Villejuif, France

09:20 - Free-d Molding - Every Idea Deserves a Prototype  
09:40 Daniel Treffer, MeltPrep GmbH, Graz, Austria

09:40 - Development of an enteric (delayed-release) formulation for semi-solid extrusion 3D printing  
10:00 Krstiine Roostar, University of Tartu, Estonia

10:00 - Combining two different 3D printing processes for the production of Donepezil-coated microneedle arrays  
10:20 Paraskevi Kyriaki Monou, Aristotle University of Thessaloniki, Greece

10:20 - Development of 3D printed bioadhesive films containing different types of propolis extractive solutions  
10:40 Marcos Luciano Bruschi, State University of Maringa, Brazil

10:40 - Direct extrusion of cyclodextrin-based powders to produce customized pharmaceutical dosage forms by 3D printing  
11:00 Nunzio Denora, University of Bari Aldo Moro, Italy

### Short talks: Oral Delivery

09:00 - Unexpected release behavior of copovidone-based ASDs  
09:20 Dominik Borrmann, TU Dortmund University, Germany

09:20 - Solubility enhancement of PROTACs via Spray drying with Polyvinyl alcohol  
09:40 Lena Mareczek, Merck Life Science KGaA, Darmstadt, Germany

09:40 - Exploring oral device-based in situ amorphization of poorly soluble small molecule drugs  
10:00 Maria Pereverzina, University of Copenhagen, Denmark

### Short talks: In vitro and In vivo assessment of oral dosage forms

10:00 - Visualisation of the "Magenstrasse" using Realtime Magnetic Resonance Imaging  
10:20 Linus Großmann, University of Greifswald, Germany

10:20 - Device for simultaneous dissolution and permeation measurement  
10:40 David Zuza, University of Chemistry and Technology of Prague, Czech Republic

10:40 - Impact of stabilizers in solid nanocrystal formulations on particle size and dispersion behavior in biorelevant media  
11:00 Nils Böck, Abbvie Deutschland GmbH & Co. KG, Ludwigshafen, Germany



11:00 - 11:30 Coffee break/exhibition/posters

11:30 - 12:00 ADRITELF award session

### Plenary lecture

12:00 - Title tbd  
13:00 speaker tbc

13:00 - 15:00 Lunch break/exhibition/posters

### Invited talks: Patient-focused drug delivery

15:00 - Why and how introduce patient centered  
15:40 approaches in pharmaceutical product development  
Leonie Wagner, Hoffmann-La Roche, Switzerland

15:40 - Filling the deltas in patient-centric drug  
16:20 development  
Sven Stegemann, Leibniz JointLab fit, Germany

16:20 - Automated Medication Management: Empowering  
16:40 Adherence through "Robo-Pharmacist" Technology  
Erik Sonntag, University of Chemistry and  
Technology of Prague, Czech Republic

16:40 - 3D printing of personalized medicines in a hospital  
17:00 setting for children affected by rare metabolic  
disorders  
Paola Carou-Senra, University of Santiago de  
Compostela, Spain

### Invited talks: Bio-barriers and alternative routes of administration

15:00 - Oral delivery strategies based on nanoparticles for  
15:40 biologics  
Juan M. Irache, University of Navarra, Spain

15:40 - The impact of lung epithelial transporters on  
16:20 pulmonary drug delivery  
Carsten Ehrhardt, Trinity College Dublin, Ireland

16:20 - Nasal delivery for effects in the brain: it works  
17:00 Ben Forbes, Kings College London, United Kingdom

### Short talks: Controlled drug delivery

15:00 - Subcutaneous long-acting risperidone implants for  
15:20 schizophrenia treatment  
Eneko Larraneta, Queen's University Belfast, United  
Kingdom

15:20 - HA-Glucose, a hyaluronan-based hydrogel to feed  
15:40 mesenchymal stem cells delivered for osteoarthritis  
therapy  
Paula Gonzalez Fernandez, University of Geneva,  
Switzerland

15:40 - Thermosensitive in situ gelling poloxamers/  
16:00 hyaluronic acid gels for ocular delivery  
Laura Mayol, University of Naples Federico II, Italy

### Short talks: Buccal and nasal and pulmonary delivery

16:00 - Intranasal nose-to-brain delivery of a monoclonal  
16:20 antibody with a controlled release drug delivery  
system: proof-of-concept and pharmacokinetic  
studies in mini pigs  
Katharina Schindowski Zimmermann, Biberach  
University of Applied Sciences, Germany

16:20 - Combining microneedles with electrospun  
16:40 mucoadhesive patches to improve buccal  
transmucosal drug delivery  
Cerys Evans, University of Sheffield, United Kingdom

16:40 - RNhale - a dry powder platform technology for  
17:00 Pulmonary RNA delivery  
Leonie DeBlöch, Ludwig Maximilians University of  
Munich, Germany

### Short talks: Parenteral Delivery

15:00 - Sulforaphane-loaded hyaluronic acid-poloxamer  
15:20 hybrid hydrogel: a new application for pain  
management  
Giovana Tofoli, Faculty of São Leopoldo Mandic,  
Brazil

15:20 - Novel thermo-sensitive oleogels as long acting  
15:40 injectables for the delivery of hydrophilic drugs  
Valeria Tamburrini, University of East Anglia, United  
Kingdom

15:40 - Exploring bottom-up approaches towards long-  
16:00 acting injectable suspensions  
Sarah Hudson, University of Limerick, Ireland

### Short talks: Protein formulations

16:00 - A versatile platform for orthogonal analysis of  
16:20 protein physical stability in multiwell plates  
Michaela Cohrs, University of Ghent, Belgium

16:20 - Single-Step Freeze-Drying of Protein Formulations  
16:40 Elena Richert, Ludwig-Maximilians-University of  
Munich, Germany

16:40 - The Viscosity Reduction Platform: Enabling  
17:00 High-concentration and Low-viscosity Protein  
Formulations  
Can Araman, Merck Life Science KGaA, Darmstadt,  
Germany

17:00 End of conference

Programme subjected to changes!

### Poster sessions on Tuesday

09:00 -  
17:00

- Oral delivery
- Controlled drug delivery
- Parenteral delivery
- Bioavailability, absorption enhancement and in-vitro/In-vivo correlations
- Physical pharmacy and preformulation
- Excipients and raw materials
- Gene and advanced therapy products
- Pediatric and geriatric drug delivery and gender medicine

### Poster sessions on Wednesday

09:00 -  
17:00

- Protein formulation
- 2D/3D printing
- Buccal and nasal delivery
- Pharmaceutical manufacturing and engineering
- Pulmonary delivery
- Packaging
- Miscellaneous

### Poster sessions on Thursday

09:00 -  
17:00

- Nanoparticles and vesicles
- Continuous manufacturing
- Topical and transdermal delivery
- Advanced drug delivery systems
- Microbioma and drug delivery
- Green & sustainable pharma
- Stability testing
- Quality control and PAT

## Chairs and committees

### Local chair of the conference

Prof. Lea-Ann Dailey, University of Vienna, Austria

### Co-chairs of the conference

Prof. Jörg Breitzkreutz, University of Düsseldorf, Germany

Prof. Paolo Caliceti, University of Padova, Italy

Prof. Juergen Siepmann, University of Lille, France

### Chair of the programme committee

Dr. Mauro Di Stefano, CSL Behring AG, Switzerland

### Programme committee

Prof. Ruggero Bettini, University of Parma, Italy

Prof. Jörg Breitzkreutz, University of Düsseldorf, Germany

Prof. Paolo Caliceti, University of Padova, Italy

Prof. Lea-Ann Dailey, University of Vienna, Austria

Dr. Mauro Di Stefano, CSL Behring AG, Switzerland

Prof. Vincent Faivre, University of Paris-Saclay, France

Dr. Vasco Filipe, Sanofi, France

Dr. Alexandre Gil, Gattfossé, France

Prof. Sandra Klein, University of Greifswald, Germany

Prof. Juergen Siepmann, University of Lille, France

## Abstract submission

### Deadline for abstract submission:

submission closed

**Abstracts** Submitted abstracts will be presented either orally as short talk or as poster presentation on one day from 19 - 21 March 2024.

**Acceptance of abstracts** Authors have been notified of acceptance of their submitted abstract and the type of presentation (oral or poster) on Thursday, 14 December 2023, in the afternoon by email.

Authors also have the possibility to view the status of their abstract using the function "status of your abstract" on our website.



## Social programme

### Welcome reception

The welcome reception will be held on

**Monday, 18 March 2024 from 17:30 - 19:00 h.**

Enjoy a glass of wine while networking with old and new friends or strolling around the industrial exhibition ResearchPharm® in the congress centre.

### Gala dinner

Join us for our unmissable social networking gala dinner at the charming event location „HOFBURG Vienna“.

The doors will be open for you

**on Wednesday, 20 March 2024 from 20:00 - 00:00 h (entrance from 19:00).**

The HOFBURG Vienna is accessible within walking distance in the city centre of Vienna.

Experience Vienna on a traditional exclusive level and establish contacts in a relaxed atmosphere. Taste the variety of traditional Austrian food with a seated three-course dinner menu.





We invite you to join this  
state-of-the-art industrial exhibition

Coffee breaks, welcome reception as well as the event dinner are included in the registration fee. Coffee breaks and welcome reception will be integrated in the exhibition/poster area to create as much traffic around your booth as possible.

It's easy to book a booth at the ResearchPharm®. Just fill in the booking form, which you will find on our website [www.researchpharm.org](http://www.researchpharm.org) and send it to us.

Your contact for further information is:  
Valentina Marinkova

☎ + 49 6131 97 69 40

✉ [vm@apv-mainz.de](mailto:vm@apv-mainz.de)

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Let's get in touch and find out what might be most suitable for your business development goals.

For more information on sponsoring options contact Anna to learn more about our sponsoring and tailor-made packages.

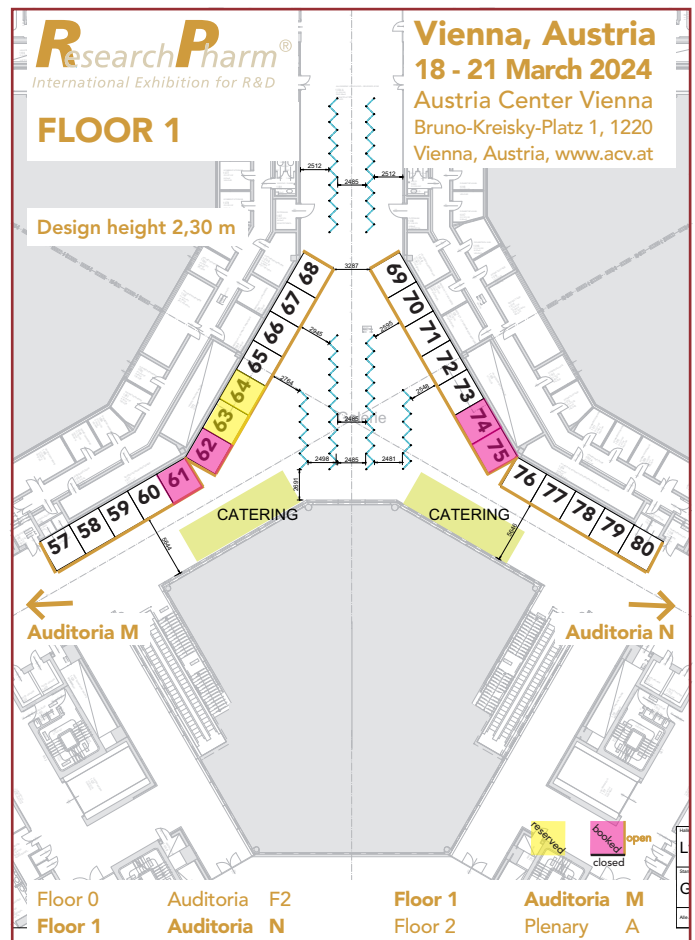
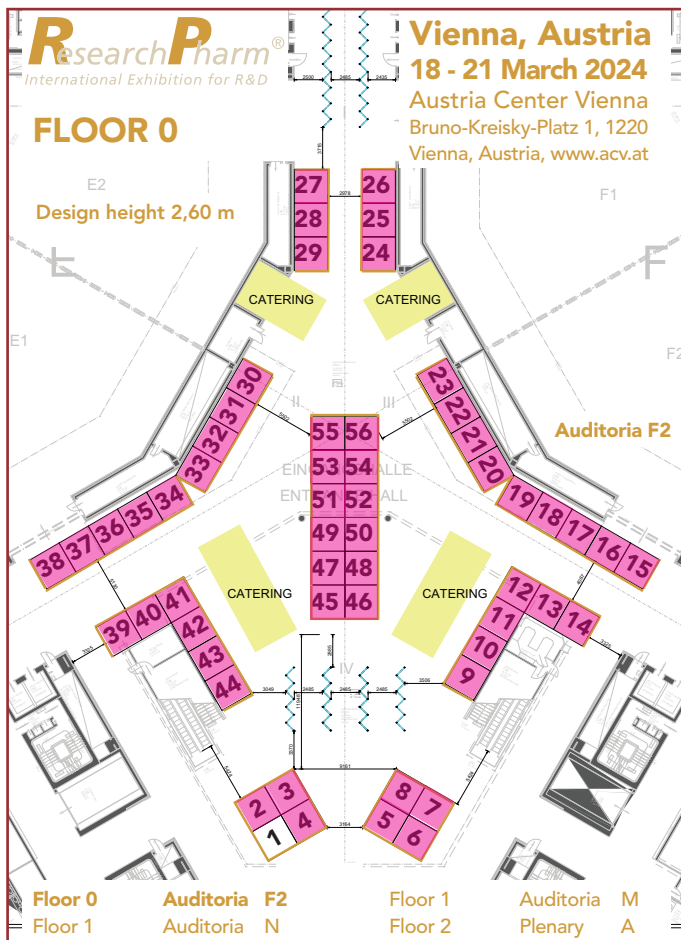
Your contact for further information is:  
Anna-Maria Pötzl

☎ + 49 6131 97 69 10

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Take advantage of this great event to showcase your company and your products to an international and very versatile audience!

## FLOORPLAN



For the updated floorplan with available booths please visit our website:  
[www.researchpharm.org](http://www.researchpharm.org)



## Venue

ACV · Austria Center Vienna  
Bruno-Kreisky-Platz 1 · 1220 Vienna · Austria  
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