

5th

European

★ Conference on ★
Pharmaceutics



5th European Conference on Pharmaceutics

Ready for the future: innovative dosage forms and
advanced technologies for modern therapeutics

Porto Portugal
24 - 25 March 2025



© CC BY-NC-ND - Associação de Turismo do Porto e Norte, AR

www.europeanmeeting.org

5th European Conference on Pharmaceutics

Innovative dosage forms and advanced technologies for modern therapeutics

24 - 25 March 2025, Porto, Portugal

Dear Colleague,

Following the great success of the past European Conferences on Pharmaceutics, which were held in Reims, Krakow, Bologna and Marseille, it is our great pleasure to announce the fifth congress of this series of international meetings, which will be organised in Porto, Portugal, on 24-25 March 2025. It will be dedicated to "Innovative dosage forms and advanced technologies for modern therapeutics".


The European Conferences on Pharmaceutics are held every two years (in March/April of the uneven years). They are jointly organized by the APGI ("International Society of Drug Delivery Sciences and Technology"), APV ("International Association for Pharmaceutical Technology") and SITELF ("Italian Society of Pharmaceutical Technology and Legislation and Related Disciplines").

Generally, about 600 participants join the conference. Often, one third of them come from industry, one third have permanent position at academia, and one third are young scientists: PhD students & postdocs - the next generation of researchers in our field. The aim is to help bridging the gap between fundamental academic research and industrial applications, offering the opportunity to initiate fruitful exchange and cooperation between university and industry. The conference will be a perfect occasion for young as well as established scientists from all over the world to present their work, discuss most recent scientific findings, network and to share their experience with colleagues. World-wide leading experts in the field will give plenary lectures and invited talks on hot topics. They will give overviews on the current state of the art in the respective domains and outlooks on future perspectives. In addition, new research findings will be presented in the form of short talks, selected from submitted abstracts. Furthermore, poster presentations will give the opportunity to get an update on the most recent discoveries in pharmaceutics and to personally exchange with the authors.

An industrial exhibition will accompany the conference and allow learning about the current trends and newest products in the areas of pharmaceutical ingredients, analytical technologies, equipment, medicinal products, medical devices, contract manufacturing and many other fields.

Please note that all coffee and lunch breaks as well as the welcome reception will be included in the registration fees and will be held in the industrial exhibition & poster presentation area in order to facilitate discussions between participants, exhibitors and presenters.


We are very much looking forward to welcoming you to the 5th European Conference on Pharmaceutics in Porto in 2025!


Juergen Siepmann
President APGI




Sandra Klein
President APV




Paola Minghetti
President SITELF



Chair and programme committee

Chair of the conference

Bruno Sarmento, University of Porto, Portugal

Programme committee

Paolo Caliceti, University of Padova, Italy
Sandra Klein, University of Greifswald, Germany
Paola Minghetti, University of Milan, Italy
Olivier Rougeot, Sanofi, France
Juergen Siepmann, University of Lille, France
Alena Wieber, Merck, Germany



© CC BY-NC-ND - Associação de Turismo do Porto e Norte, AR

Programme

Monday, 24 March 2025

09:00 – 09:30	opening session	posters	exhibition	
09:30 – 10:30	plenary lecture			
10:30 – 11:00	coffee break			
11:00 – 13:00	short talks			invited talks
13:00 – 15:00	lunch			
15:00 – 17:00	short talks			invited talks
17:00 – 19:00	welcome reception			

09:00 **Opening ceremony**

Plenary lecture

09:30 **A drug product in the GUT: an uncertain journey?**
Werner Weitschies, University of Greifswald, Germany

10:30 **Coffee/exhibition/posters**

Invited talks: Challenges and innovation in oral drug delivery

11:00 **Harnessing the potential of Room Temperature Ionic Liquids (RTILs) for oral solid dosage forms of poorly soluble drugs**
Anne Marie Healy, Trinity College Dublin, Ireland

11:40 **New insights into the disintegration mechanism in uncoated and coated immediate release tablets**
Axel Zeitler, University of Cambridge, United Kingdom

12:20 **Selecting the correct grade of excipients for use in pharmaceutical drug products**
Kevin Hughes, Colorcon and IPEC Europe, United Kingdom

Short talks: Nanoparticles; siRNA delivery; Mucosal drug delivery

11:00 **Lipid Nanoparticles Decorated With A CD13 Ligand As A Novel Approach To Selectively Target The Tumor Vasculature**
Giulia Anderluzzi, University of Milan, Italy

11:10 **Comparative Analysis Of Soft And Hard Nanoparticles: A Multi-technique Approach To Explore Physicochemical Characteristics And In Vitro Behavior**
Eleonora D'Intino, Sapienza, University of Rome, Italy

11:20 **Highly Biocompatible Polyphosphoester-stabilized Cubosomes As A Strategy To Deliver A Novel Synthesized Ru(II) Complex For The Photodynamic Therapy Of Lung Adenocarcinoma**
Luca Casula, University of Cagliari, Italy

11:30 **Targeted Nanodrugs For Inhaled Therapy Of Inflammatory Lung Diseases**
Eleonora Maretti, University of Modena and Reggio Emilia, Italy

11:40 **A DC-targeted Nano-vaccine To Overcome Immune Suppression And Enhance The SoC Efficacy For PDAC**
Ron Kleiner, Tel Aviv University, Israel

11:50 **Intranasal Self-Microemulsifying Drug Delivery System Improves Nestorone® Brain Delivery And Confers Neuroprotection**
Adriana O. Santos, University of Beira Interior, Portugal

12:00 **Peptide-directed Nanoemulsions**
Natasia Holler, University of Graz, Austria

12:10 **Pulmonary Delivery of siRNA Anti-TNF α -loaded Lipid Nanoparticles For Rapid Recovery In Murine Acute Lung Injury**
Elias Fattal, University Paris Saclay, France

12:20 **Modulating The Architecture Of Oligocationic Polymers Enables Efficient siRNA Delivery**
Joachim Arikibe, University of Padova, Italy

12:30 **Targeted Inulin-based Polycations For siRNA Delivery In Colon Cancer**
Carmela Mazzacano, University of Salerno, Italy

12:40 **Mucoadhesive Polymer-coated Liposomes As A Potential Strategy For The Treatment Of Aerobic Vaginitis**
Sara Lugli, University of Bologna, Italy

12:50 **Propranolol HCL-loaded Electrospun Mucoadhesive Films For Intranasal Delivery**
Konstantina Chachlioutaki, Aristotle University of Thessaloniki, Greece

13:00 **Lunch/exhibition/posters**

Invited talks: Delivery of biologics: From ATMP to oligonucleotides

15:00 **Formulation-driven DNA or mRNA delivery**
Nathalie Mignet, University of Paris-Descartes, France

15:40 **Next-generation delivery systems for mRNA vaccines**
Camilla Foged, University of Copenhagen, Denmark

16:20 **Antibody-drug conjugates: Next generation magic bullets**
Carl Deutsch, NBE Therapeutic, Germany

Short talks: Advanced drug delivery systems, Bioavailability enhancement

15:00 **Developing Innovative Cannabidiol Drug Delivery Systems For Therapeutical Use**
E. Socrates Tabosa do Egito, Federal University of Rio Grande do Norte - UFRN, Brazil

- 15:10 **3D-printed Polyurethane Vascular Stent-graft With Enhanced Antithrombotic Properties**
Kim Vanden Broeck, University of Lille, France
- 15:20 **Mechanochemical Induced Swelling-activation Of A Gastric-deployable 4D Printed Polypill Inspired By Natural Hygromorphic Actuators**
Christina Karavasili, Aristotle University of Thessaloniki, Greece
- 15:30 **Design And Evaluation Of Thermo-responsive Lipid-needle Patches For Enhanced Transdermal Delivery Of Lipophilic Drugs**
Matteo Tollemeto, Technical University of Denmark, Denmark
- 15:40 **A Multifunctional Mucoadhesive Patch For Enhanced Delivery Of Peptides**
Margarida Sacramento, University of Aveiro, Portugal
- 15:50 **Assemblable System For Ultra-long Gastric Delivery Of Aciclovir: Combining 4D Printing And Tableting**
Marco Uboldi, University of Milan, Italy
- 16:00 **Patient-derived Melanoma Tumoroids For Cutaneous Melanoma Modelling And Screening Of Therapies**
Juliana Viegas, Institute for Research and Innovation in Health - i3s, Portugal
- 16:10 **Enhancing Lipid Formulations With Zwitterionic Surfactants: A Step Towards Superior Drug Delivery**
Antonio Lopalco, University of Bari Aldo Moro, Italy
- 16:20 **Bridging The Gap Between In Vitro And In Vivo Solubility-permeability Interplay**
Kohsaku Kawakami, National Institute for Materials Science, Japan
- 16:30 **Peptide Release From Minitablets In Biorelevant Media: Impact Of Permeation Enhancers**
Andrew Fagan, University College Cork, Ireland
- 16:40 **In Vitro-in Vivo Correlation Of Amorphous Solid Dispersion Enabled Itraconazole Tablets**
James Polli, University of Maryland, United States
- 16:50 **Preparation Of Indomethacin Nanoparticles By Wet Milling**
Stephane Scheele, Invite GmbH, Germany
- 17:00 **Welcome reception**

Tuesday, 25 March 2025

09:00 – 11:00	short talks	invited talks	posters	exhibition
11:00 – 11:45	coffee break			
11:45 – 12:45	plenary lecture			
12:45 – 15:00	lunch			
15:00 – 17:00	short talks	invited talks		

Invited talks: Special administration routes – biopharmaceutical aspects and regulatory challenges

- 09:00 **Dry powders for lung delivery of biopharmaceuticals**
Ruggero Bettini, University of Parma, IT
- 09:40 **Long acting injectables**
Aldofo Lopez Noriega, MedinCell, FR
- 10:20 **Regulatory strategies for the development of inhaled, cutaneous and gastrointestinal locally acting generic products**
Alfredo García Arieta, Consultant for the WHO Prequalification Programme of Medicines, ES

Short talks: Pharmaceutical manufacturing; Physical pharmacy

- 09:00 **Optimizing Processes And Improving Quality In Tablet Compression And Encapsulation -- A New Way Of Supervised Machine Learning?**
Thomas Brinz, Syntegon Technology GmbH, Germany
- 09:10 **Elucidating Batch Heterogeneity During Freeze-Drying Using Infrared Thermography And Mechanistic Modeling**
Leif-Thore Deck, University of Cambridge, United Kingdom
- 09:20 **Combination Of A Pre-Emulsification Microsystem With A Premix Membrane Emulsification**
Daniel Jupke, Technical University Braunschweig, Germany
- 09:30 **Influence Of Filter Cleaning Frequency On The Residence Time Of Granules In Continuous Wet Granulation**
Alana Delvos, University of Düsseldorf, Germany
- 09:40 **Evaluation Of Different Fluid Bed Settings For Powder Coating Of Pellets With Ethylcellulose**
Matteo Cerea, University of Milan, Italy
- 09:50 **How To Configure The Performance In A Single Stage Continuous Melt Granulation With Planetary Roller Systems**
Jens Bartsch, Technical University Dortmund, Germany



- 10:00 **Preformulation Studies And DPE 3D Printing Of Olaparib: A Novel Approach To Enhance Solubility And Bioavailability**
Nunzio Denora, University of Bari Aldo Moro
- 10:10 **3D Printed Gastroretentive Dosage Forms For Timed Multidrug Release**
Jonas Adriaenssens, KU Leuven, Belgium
- 10:20 **Cyclodextrin-based Formulations For Delivering Broad-spectrum Nerve Agent Antidote To The BBB: Physicochemical Characterization, Application In A Human BBB Model And In Vivo Toxicity Study**
Léa Thiberville, University Paris Saclay, France
- 10:30 **Towards Amorphous Engineering: Can PolyAmorphs Be Stabilized By A Co-former Molecule?**
Inês C. B. Martins, University of Copenhagen, Denmark
- 10:40 **Physical Stability Of Ibuprofen-HPMCAS Solid Dispersion As Function Of Solvent Type**
Elzbieta Maria Gniazdowska, Riga Stradins University, Latvia
- 10:50 **Paving the way towards sustainable pharmaceuticals**
Mike Kleinert, University of Bergen, Norway
- 11:00 [Coffee/exhibition/posters](#)
- Plenary lecture**
- 11:45 **From Data to Drugs: Predictive and Generative AI in Pharma**
Finn Bauer, Croda Europe, UK
- 12:45 [Lunch/exhibition/posters](#)
- Invited talks: Innovation in process development and manufacturing**
- 15:00 **What's new in PAT?**
Johannes Khinast, Technical University Graz, AT
- 15:40 **Benefits of modeling and continuous manufacturing for drug product development, clinical supply and industrial transfer**
Sophie Martin, Sanofi, FR
- 16:20 **Electrospinning process in the biomedical and pharmaceutical fields**
Bice Conti, University of Pavia, IT
- Short talks: Miscellaneous**
- 15:00 **Novel pullulan/hyaluronic acid based hydrogel formulations for microneedle development**
Boyan Wang, Queen's University Belfast, United Kingdom
- 15:10 **Physicochemical Characterization And Preformulation Hydrogel Based On Sericin At Different Molecular Weights**
Maria Rosa Gigliobianco, University of G. d'Annunzio of Chieti and Pescara, Italy
- 15:20 **Bi-Gel: Revolutionizing Topical Experience With A Unique Structural Design**
Elise Dauphin-Chanard, Gattefosse SAS, France
- 15:30 **Development Of Extended-release Lipid Matrix Tablets Tailored For Paediatric Use**
Stefanie Brooks, University of Greifswald, Germany
- 15:40 **Lipid Nanocarriers For Therapy During Pregnancy**
Karine Andrieux, University Paris Cité, France
- 15:50 **Activity Evaluation Of A Memantine Prodrug Microemulsion In A Rat Model Of Tendinopathy**
Giulia Vanti, University of Florence, Italy
- 16:00 **Establishing And Characterizing A Physiologically Relevant 3D Gut-on-a-chip Model Based On Centrifugal Microfluidics**
Juliane F Christfort, Technical University of Denmark, Denmark
- 16:10 **A Simplified Method To Interpret Drug Release From Thin Polymeric Films By Drug Diffusivity Measurements**
Karin Korelc, University of Oslo, Norway
- 16:20 **Key Parameters For Nasal Dry Powders Performance Characterization**
Cláudia Costa, Hovione FarmaCiência, Portugal
- 16:30 **Optical Coherence Tomography In Thin Film Analysis: A Novel Approach To Characterizing Drug Delivery Systems**
Eleftheria Pantazoglou, Technical University of Denmark, Denmark
- 16:40 **Quantitative Nuclear Magnetic Resonance Spectroscopy For Excipient Profiling And Deformulation**
Isha Saraf, Research Centre for Pharmaceutical Engineering, Austria
- 16:50 **Automated In Silico Phase Diagram Prediction For Solid Dispersions**
Martin Hofsäss, BASF SE, Germany
- 17:00 [End of the conference](#)



Abstract submission

Submission closed.

Acceptance of abstracts

Authors have been notified of acceptance of their abstracts on 13 December 2024.

Oral short talk presentations

There are 48 slots for short talks. The time slot for oral contributions will be exactly 10 minutes: the duration of your talk is calculated for exact 7 minutes talking time and 2 minutes for question and answer, 1 minutes for speaker changes. Authors can make use of video projection.

Poster presentations

Posters will be presented during one specific day with special times for poster presentation during coffee and lunch breaks. Please bring a poster with the size of DIN A0 (portrait format).

Registration of presenters

Short talk and poster presenters have to register to the conference until 31 January 2025 and pay the registration fee until 15 February 2025. Otherwise the abstracts will be deleted.

Registration fee

All coffee and lunch breaks as well as the welcome reception are included in the registration fees and will be held in the industrial exhibition and poster presentation area in order to facilitate discussions between participants, exhibitors and presenters.

Full participation

until 31 January 2025

from 01 February 2025

Student¹	member ²	210.00 €*	260.00 €*
	non-member	410.00 €*	460.00 €*
Academia	member ²	410.00 €*	510.00 €*
	non-member	710.00 €*	810.00 €*
Industry	member ²	1,340.00 €*	1,440.00 €*
	non-member	1,640.00 €*	1,740.00 €*

- 1 Students are requested to send a copy of their valid student card/pass or a written confirmation of their supervisor. Student rate only available for full time students.
- 2 Members of all participating societies

* all prices excluding 21% Portuguese VAT.

Accommodation

Headquarter hotel

Neya Porto Hotel

Rua do Monchique 35-41
4050-394 Porto
Portugal

www.porto.neyahotels.com/en/
Promotional code: ECP2025

Discount:

- 20% off on the best available rate until 15.01.2025, can be accumulated with discount NEYA Exclusive
- 10% off on the best available rate between 16.01.2025 and 31.01.2025, can be accumulated with discount NEYA Exclusive
- 5% off on the best available rate between 01.02.2025 and 28.02.2025, can be accumulated with discount NEYA Exclusive

For booking: Please choose your check-in and check-out dates and go to „Book now“, afterward you can enter the promotional code ECP2025 and have to go to „Check availability“.

Further recommendation on hotels and promotional codes on our homepage: europeanmeeting.org.



© CC BY-NC-ND - Associação de Turismo do Porto e Norte, AR

Venue

Alfândega do Porto

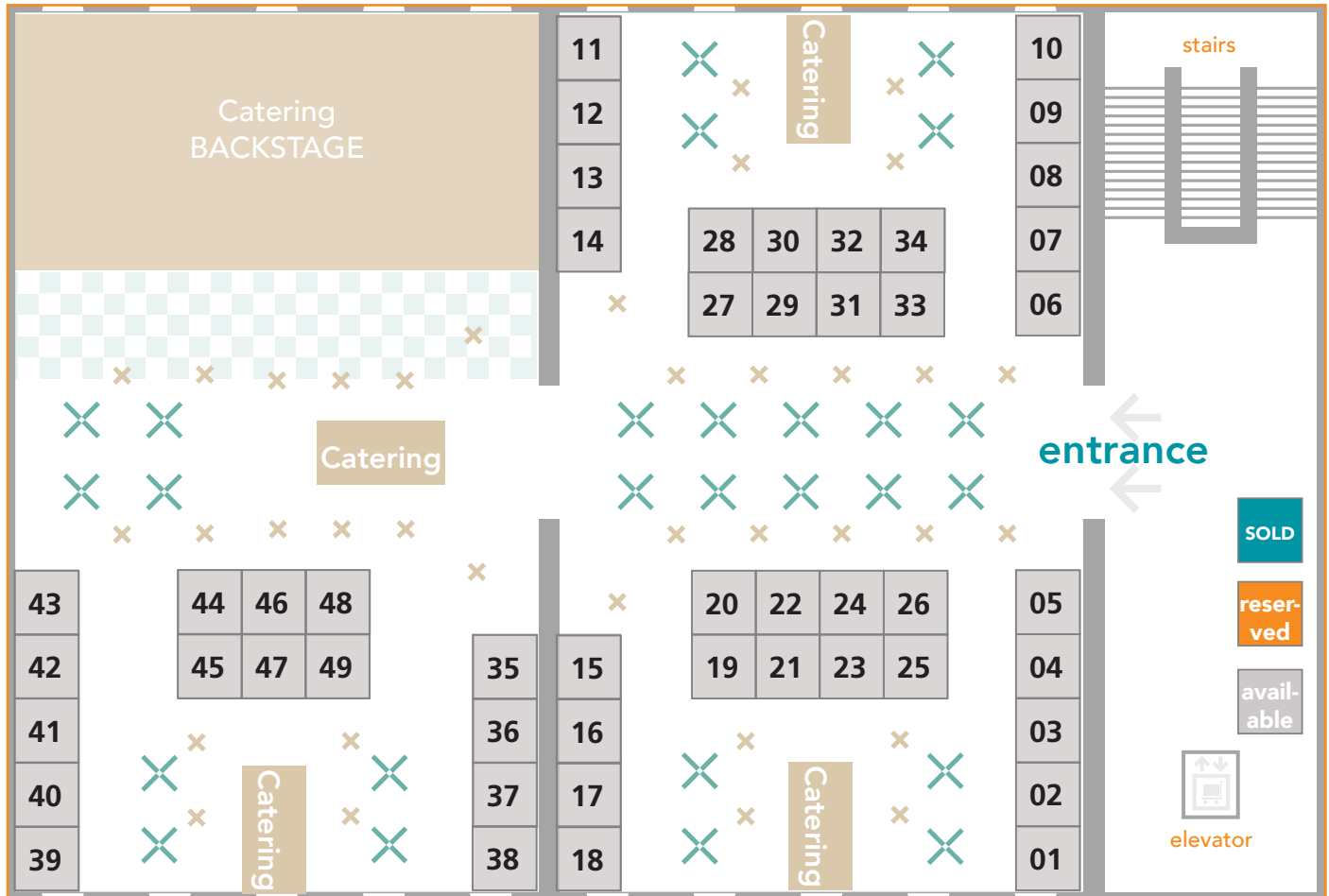
Centro de Congressos
Rua Nova da Alfândega
Edifício da Alfândega
4050-429 Porto
Portugal

www.ccalfandegaporto.com

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

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

Coffee and lunch breaks as well as the welcome reception are included in the registration fee and will be integrated in the exhibition/poster area to create as much networking opportunities around the booths as possible.



You can find the current floorplan with available booths on our website: www.researchpharm.org

For more information please contact: **Valentina Marinkova** ☎ +49 6131 9769 40 ✉ vm@apv-mainz.de

Sponsoring

The attractive sponsorship packages spotlight your company and your products. Increase your visibility and communicate your brand values to your target group in the pharma community before, during and after the meeting. Please have a look at the further pages for various opportunities to contribute to this meeting. Our support structure offers you a variety of packages starting from 500.00 €.

Sponsoring options are for example:

- Lanyards (reserved)
- Conference APP
- Meeting bags (sold)
- Insert in bags
- Welcome reception
- Coffee breaks
- Pens and notepads
- Lunch break
- Ads in the conference book

To discuss any of the sponsorship and exhibition opportunities in more detail or if there is a promotion your organisation is interested in, please contact the organising team:

Anna-Maria Pötzl mail poetzl@apv-mainz.de phone +49 6131 9769 10 europeanmeeting.org