

12th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology

Vienna, Austria

23 - 26 March 2020

Abstract submission deadline

15 November 2019



in combination with









www.worldmeeting.org









12th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology 23 to 26 March 2020, Vienna, Austria

In continuation of the very successful scientific meetings in Budapest, Paris, Berlin, Florence, Geneva, Barcelona, Malta, Istanbul, Lisbon, Glasgow and Granada, the 12th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology will be held in Vienna, Austria in 2020.

This conference has gained an ever increasing impact among the pharmaceutical scientists: With more than 1000 submitted abstracts and more than 1300 participants 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 during 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 Pharmaceutics, 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 form of posters, allowing for successful 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 organizing committee cordially invites you to join the 12th World Meeting and would be glad to welcome you in Vienna, Austria!

President ADRITELF

Juergen Siepmann President APGI Joerg Breitkreutz President APV















Programme

Monday, 23 March 2020



Key note lecture

13:45 - Engineering cancer immunotherapy
 14:45 David J. Mooney, Harvard School of Engineering and Applied Sciences, Cambridge, USA

14:45 - 15:30 Coffee break/exhibition

Hot topic session

15:30 - Digitalisation and application of Pharma 4.0
 16:10 tools to manufacturing
 Patrick Hyett, GlaxoSmithKline, United Kingdom

 16:10 - Advances in PLGA drug delivery system

16:50 Steven Schwendeman, College of Pharmacy, University of Michigan Ann Arbor, MI, USA

16:50 - Delivery of cannabinoids to and across the
 17:30 skin
 Elka Touitou, Hebrew University of Jerusalem,
 Israel

17:30 - 19:00 Welcome reception

Tuesday, 24 March 2020



Invited talks: What's new in nanotechnology?

09:00 - What's needed in nanomedicine?
 09:40 Twan Lammers, Department Nanomedicines and Theranostics, RWTH, Aachen University, Germany

09:40 - Nanotechnologies for advanced imaging
 10:20 Nathalie Mignet, Faculty of Pharmacy,
 University of Paris Descartes, France

 10:20 - Hyperloaded polymeric micelles for chemoand immunotherapy
 Alexander Kabanov, Eshelman School of Pharmacy at Chapel Hill, University of North Carolina, USA

Invited talks: Solid dosage forms

09:00 - Adoption of the MCS concept in the pharmaceutical industry
 Michael Leane, Bristol-Myers Squibb, New York City, USA/Anikó Szepes, F. Hoffmann-La Roche, Basel, Switzerland

09:40 - Process design for innovative drug delivery
 10:20 systems

 Jukka Rantanen, Department of Pharmacy,
 University of Copenhagen, Denmark

10:20 - The importance of understanding the physical and chemical properties of APIs in the digital design of drug products
 Kevin Roberts, Faculty of Engineering, University of Leeds, United Kingdom

Short talks I: Determined in December 2019

Short talks II: Determined in December 2019

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

11:30 - APGI award session 13:00 and plenary lecture

Advances in nanotechnology Patrick Couvreur, Faculty of Pharmaceutical Sciences, Paris Sud University, France

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

Invited talks: Advanced therapeutic products: an industrial perspective

15:00 - Finding answers to antibody bioprocessing
 15:40 challenges in biophysics
 Chris Van der Walle, Medlmmune,
 Cambridge, United Kingdom

15:40 - Lentiviral vector-based medicines from concept to market
 James Miskin, Oxford Biomedica, United Kingdom

16:20 - Biodrugs and advanced therapy medicinal
 products: a revolution in medicine
 Maria Luisa Nolli, NCNbio, Milan, Italy









Programme

Invited talks: 3D-printing

15:00 - 3D-printing of medicines and implants:
 15:40 making the formulations work
 Clive Roberts, School of Pharmacy, University of Nottingham, United Kingdom

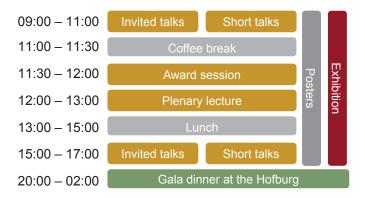
15:40 - 3D-printing of medicines at the point of care: fantasy or the future?
 Matthew Peak, Alder Hey Children's Hospital, Liverpool, United Kingdom

16:20 - 3D printing in an industrial GMP setting
 17:00 Timothy Tracy, Aprecia Pharmaceuticals, Blue Ash, OH, USA

Short talks III: Determined in December 2019

Short talks IV: Determined in December 2019

Wednesday, 25 March 2020



Invited talks: Formulation issues for biotech drugs

- 09:00 Pellet freeze-drying of biopharmaceuticals09:40 Stefan Schneid, Bayer, Wuppertal, Germany
- 10:20 L-arginine-based protein formulations in freeze drying: opportunities and challenges
 Henning Gieseler, Department of Chemistry
 and Pharmacy, University Erlangen-Nürnberg,
 Germany
- 10:20 Biologics drug product development:
 11:00 challenges at the interface of formulation,
 primary packaging and application
 Susanne Jorg, Lonza Pharma & Biotech,
 Verviers, Belgium

Invited talks: Oral drug delivery

09:00 - Oral drug delivery: how to formulate poorly
 09:40 absorbed drugs

 Andreas Bernkop-Schnürch, Faculty of
 Chemistry and Pharmacy, University of
 Innsbruck, Austria

09:40 - Biological barriers to oral delivery of macromolecules
 Caitriona O'Driscoll, School of Pharmacy, University of Cork, Ireland

10:20 - The virtual patient and the in-silico design of solid dosage forms
 Hans Leuenberger, College of Pharmacy, University of Florida, Lake Nona Medical Campus, Orlando, FL, USA

Short talks V: Determined in December 2019

Short talks VI: Determined in December 2019

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

11:30 - 12:00 APV award session

Plenary lecture

12:00 - Pharmacomicrobiomics: drugs meet the human microbiome
 Christina Moissl-Eichinger, Medical University of Graz, Austria

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

Invited talks: Localised drug delivery

15:00 - Jumping to the brain: tailored
 15:40 nanomedicines
 Giovanni Tosi, University of Modena and Reggio Emilia, Italy

15:40 - Drug delivery to the eye and ear
 16:20 Amélie Bochot, School of Pharmacy, Institut
 Galien Paris-Sud, University of Paris Sud/
 Paris-Saclay, Châtenay-Malabry, France

 16:20 - Inhaled chemotherapy: a new modality for
 17:00 lung cancer treatment?
 Nathalie Wauthoz, Université Libre de Bruxelles, Belgium

Invited talks: Amorphous drug delivery systems

15:00 - The impact of atomization and drying rate on the mechanical properties of spray dried amorphous solid dispersions
 Aaron Goodwin, Pfizer, USA

15:40 - Hybrid mixtures: A perspective on
 16:20 amorphous solid dispersions in food applications
 Lennart Fries, Nestlé Research Center, Vevey, Switzerland

16:20 - The variability of the amorphous state in relation to processing
 Marc Descamps, University of Lille, France









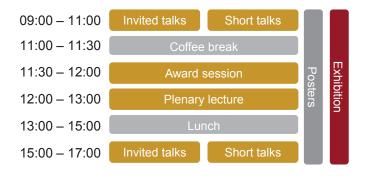
Programme

Short talks VII: Determined in December 2019

Short talks VIII: Determined in December 2019

20:00 - 02:00 Gala dinner at the Hofburg

Thursday, 26 March 2020



Invited talks: In silico simulation for manufacturing processes

- 09:00 Digitalization in pharmaceutical product and process design: from advanced simulations to virtual drug product development
 Johannes Khinast, Graz University of Technology, Austria
- 09:40 Digital Process Design
- 10:20 Sean Bermingham, Process System Enterprise (PSE), London, United Kingdom
- 10:20 Modelling and simulation of fluid-bed
 11:00 processes
 Stefan Heinrich, Hamburg University of Technology, Germany

Invited talks: Nanofabrication technologies

- 09:00 09:40 Novel manufacturing for healthcare:
 microbubbles, particles, capsules and fibres
 Mohan Edirisinghe, Biomaterials Processing
 Laboratory, Department Mechanical
 Engineering, University College London,
 United Kingdom
- 09:40 Advances in electrospinning10:20 Nalin de Silva, Department of Chemistry,
- University of Colombo, Sri Lanka

 10:20 Advanced in vitro lung-on-chip platforms for inhalation assays

 Josue Sznitman, Department of Biomedical Engineering, Israel Institute of Technology, Haifa, Israel

Short talks X: Determined in December 2019

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

11:30 - 12:00 ADRITELF award session

Plenary lecture

12:00 - Oral drug delivery systems: from irrelevance to top-selling products and ongoing challenges
 Andrea Gazzaniga, Biopharmaceuticals and Pharmaceutical Technology Laboratory, University of Milan, Italy

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

Invited talks: Dermal and transdermal delivery

- 15:00 Pickering emulsions
 15:40 Marie-Alexandrine Bolzinger, Claude Bernard University Lyon, France
 15:40 Microsysty patches for high door drugs
- 15:40 Microarray patches for high-dose drug delivery: targeting global healthcare challenges
 Ryan F. Donelly, School of Pharmacy, Queen's University Belfast, United Kingdom
- 16:20 Improved vaccine immunogenicity through
 17:00 microneedle delivery
 Michael Schrader, Vaxess, Boston, MA, USA

Invited talks: Continuous manufacturing

- 15:00 Process development of the future: fully automated DoE process analysis in an integrated continuous manufacturing plant for solid oral dosage forms
 Victoria Pauli, Novartis, Basel, Switzerland
- 15:40 Implementing continuous manufacturing
 16:20 into a factory for solid dosage forms
 Clemens Stief, Pfizer, Freiburg, Germany
- 16:20 Continuous manufacturing of solid dosage forms; opportunities and controversies Kendal Pitt, GlaxoSmithKline, Ware, United Kingdom

Short talks XI: Determined in December 2019

Short talks XII: Determined in December 2019

17:00 End of conference

Programme subjected to be changed!

Short talks IX: Determined in December 2019









Chairs and committees

Chair of the conference

Eva Roblegg, University of Vienna/University of Graz, Austria

Co-chairs of the conference

Jörg Breitkreutz, University of Düsseldorf, Germany Anna Maria Fadda, University of Cagliari, Italy Jürgen Siepmann, University of Lille, France

Chair of the programme committee

Duncan Craig, University College London, UK

Programme committee members

Dorothee Ambrosius, Boehringer Ingelheim, Germany Maria Carafa, Sapienza University Rome, Italy Simon Geissler, Merck, Darmstadt, Germany Catherine Herry, Ethypharm, Le Grand-Quevilly, France Alessandro Regola, Italy

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Piroska Szabó-Révész, HSPS, Hungary

Social programme

Welcome reception

The welcome reception will be held on

Monday, 23 March 2020 from 18:00 - 19:30 h.

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

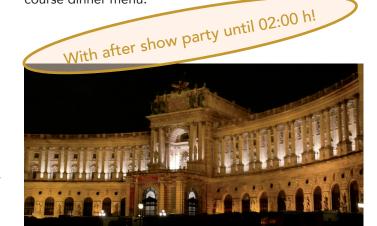
Gala dinner

Join us for our unmissable social networking gala dinner at the charming event location "Hofburg". The doors will be open for you

from 19:45 h on Wednesday, 25 March 2020!

The Hofburg is reachable 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.



Abstract submission

Online submission

Short papers can only be submitted online. Please use the following URL:

worldmeeting.org/short-paper-submission/

Deadline for short paper submission: 15 November 2019

Frédéric Zwahlen, GSIA, Switzerland

Short papers

Submitted short papers will be presented from 24 o 26 March 2020, either orally or in poster form.

Acceptance of short-papers

Authors will be notified of acceptance of their short paper and the type of presentation (oral or poster) by end of December 2019.

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

There they can view the status as well as they can edit their data and upload the latest version of their abstract. For log in use your registration ticket and your e-mail address.











ResearchPharm®

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 stand at the ResearchPharm®. Just fill in the booking form, which you find on our homepage www.researchpharm.org and send it to us.

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Shin-Etsu 45 46

Your contact for further information is:

Heide Zweyer

FLOOR 0

Floor 0

Floor 1

Auditoria F2

Auditoria

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hz@apv-mainz.de

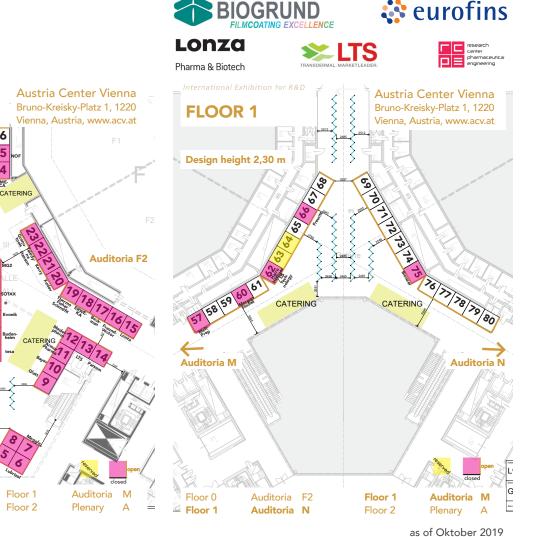
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Current floor plan with available booths can be downloaded from our homepage:











































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ACV

Austria Center Vienna

Bruno-Kreisky-Platz 1 1220 Vienna Austria

www.acv.at

Headquarter Hotel

Lindner Hotel am Belvedere ****

Rennweg 12 1030 Vienna



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+43 1 794 77 932



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Registration Fees

Full participation includes admission to scientific congress/exhibition, dinner event, welcome reception, coffee breaks and congress documentation consisting of a detailed printed programme and a menu-guided USB-Stick containing all abstracts.

Full participation		until 15 January 2020	from 16 January 2020
Student ¹	member ²	240.00 € *	360.00 € *
	non-member	400.00 € *	520.00 € *
Academia	member ²	520.00 € *	640.00 € *
	non-member	720.00 € *	840.00 € *
Industry	member ²	1540.00 € *	1690.00 € *
	non-member	1940.00 € *	2090.00 € *

^{*} price excl. Austrian VAT

Day ticket (not available for student registration):

Day ticket: 50 % of the corresponding full-participation fee. Day tickets include admission to the scientific congress/exhibition for the corresponding day. It does not include admission to social events.

Accompanying persons

Tickets for the welcome reception and the dinner event for accompanying persons are available for 96.00 € excl. Austrian VAT for both events and can be ordered online.

- Students are requested to send a copy of their valid student card/pass or a written confirmation of their supervisor. Student rate is only available for full time students.
- ² Members of all participating societies are requested to upload a membership proof (copy of membership card or membership invoice) to qualify for membership fee.