

first announcement

**PBP**  
**WORLD MEETING**

in combination with

**R**esearch**P**harm®  
*International Exhibition for R&D*

**12<sup>th</sup> World Meeting**  
on Pharmaceuticals, Biopharmaceuticals  
and Pharmaceutical Technology

**Vienna, Austria**  
**23 - 26 March 2020**



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



# 12<sup>th</sup> World Meeting on Pharmaceuticals, 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 12<sup>th</sup> World Meeting on Pharmaceuticals, 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 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 posters, allowing for fruitful 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 12<sup>th</sup> World Meeting and would be glad to welcome you in Vienna, Austria!



Anna Maria Fadda  
President ADRITELF



Juergen Siepmann  
President APGI



Joerg Breitreutz  
President APV



# Programme

## Monday, 23 March 2020

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 - 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 - Biodegradable drug delivery systems  
16:50 Steven Schwendeman, College of Pharmacy, University of Michigan Ann Arbor, MI, USA
- 16:50 - Current trends in transdermal drug delivery  
17:30 and future opportunities  
Elka Touitou, Hebrew University of Jerusalem, Israel

### 17:30 - 19:00 Welcome reception

- 09:40 - Nanotechnologies for advanced imaging  
10:20 Nathalie Mignet, Faculty of Pharmacy, University of Paris Descartes, France
- 10:20 - Hyperloaded polymeric micelles for chemo-  
11:00 and immunotherapy  
Alexander Kabanov, Eschelman School of Pharmacy, University of North Carolina, USA

### Invited talks: Solid dosage forms

- 09:00 - Adoption of the MCS concept in the  
09:40 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 - Crystallization of pharmaceuticals  
11:00 Kevin Roberts, Faculty of Engineering, University of Leeds, United Kingdom

### Short talks: Determined in December 2019

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

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

- Advances in nanotechnology  
Patrick Courvreur, 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, MedImmune, Cambridge, United Kingdom
- 15:40 - Gene-based medicines from concept to  
16:20 market  
James Miskin, Oxford BioMedica, United Kingdom
- 16:20 - Biodrugs and advanced therapy medicinal  
17:00 products: a revolution in medicine  
Maria Luisa Nolli, NCNbio, Milan, Italy

## Tuesday, 24 March 2020

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

### 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

# 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 in a hospital setting  
16:20 Matthew Peak, Alder Hey's Hospital  
Liverpool, United Kingdom
- 16:20 - 3D-printing pharmaceutical products  
17:00 Timothy Tracy, Aprexia Pharmaceuticals, Blue Ash, OH, USA

Short talks: Determined in December 2019

Short talks: Determined in December 2019

- 09:40 - Biological barriers to oral delivery of  
10:20 macromolecules  
Caitriona O'Driscoll, School of Pharmacy,  
University of Cork, Ireland
- 10:20 - (tbc)  
11:00 speaker tbc

Short talks: Determined in December 2019

Short talks: 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  
13:00 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,  
University of Paris Sud, Châtenay-Malabry, France
- 16:20 - Inhaled chemotherapy: A new modality for  
17:00 lung cancer treatment?  
Nathalie Wauthoz, Free University of Brussels, Belgium

## Invited talks: Amorphous drug delivery systems

- 15:00 - (tbc)  
15:40 Aaro Goodwin, Astex Pharmaceuticals,  
Pleasanton, CA, USA
- 15:40 - (tbc)  
16:20 Lennart Fries, Nestlé Research Center, Vevey,  
Switzerland
- 16:20 - The variability of the amorphous state in  
17:00 relation to processing  
Marc Descamps, University of Lille, France

Short talks: Determined in December 2019

Short talks: Determined in December 2019

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

## Wednesday, 25 March 2020

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: Formulation issues for biotech drugs

- 09:00 - Pellet freeze-drying of biopharmaceuticals  
09:40 Stefan Schneid, Bayer, Wuppertal, Germany
- 09:40 - (tbc)  
10:20 Henning Gieseler, Department of Chemistry  
and Pharmacy, University Erlangen-Nürnberg,  
Germany
- 10:20 - (tbc)  
11:00 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

# Programme

Thursday, 26 March 2020

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: In silico simulation for manufacturing processes

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

## Invited talks: Nanofabrication technologies

- 09:00 - 09:40 Manufacturing fibres at all scales for healthcare Mohan Edirisinghe, UCL Mechanical Engineering, London, United Kingdom
- 09:40 - 10:20 Advances in electrospinning Nalin de Silva, Sri Lanka Institute of Nanotechnology, Sri Lanka
- 10:20 - 11:00 Advanced microfluidic platforms for respiratory research: bridging in vivo and in vitro interfaces Josue Sznitman, Department of Biomedical Engineering, Israel Institute of Technology, Haifa, Israel

Short talks: Determined in December 2019

Short talks: Determined in December 2019

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

11:30 - 12:00 ADRITELF award session

## Plenary lecture

- 12:00 - 13:00 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 - 15:40 Pickering emulsions Marie-Alexandrine Bolzinger, Claude Bernard University Lyon, France
- 15:40 - 16:20 (tbc) speaker tbc
- 16:20 - 17:00 Improved vaccine immunogenicity through microneedle delivery Michael Schrader, Vaxess, Boston, MA, USA

## Invited talks: Continuous manufacturing

- 15:00 - 15:40 Redundant process control strategy in pharmaceutical continuous manufacturing Victoria Pauli, Novartis, Basel, Switzerland
- 15:40 - 16:20 Implementing continuous manufacturing into a factory for solid dosage forms Clemens Stief, Pfizer, Freiburg, Germany
- 16:20 - 17:00 Continuous manufacturing of solid dosage forms; opportunities and controversies Kendal Pitt, GlaxoSmithKline, Ware, United Kingdom

Short talks: Determined in December 2019

Short talks: Determined in December 2019

17:00 End of conference

Programme subjected to be changed!



## Chairs and committees

### Chair of the conference

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

### Co-chairs of the conference

Jörg Breitzkreutz, 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

### International Advisory Board

Lilian M. Azzopardi, Malta Pharmaceutical Association, Malta  
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Leena Peltonen, The Finnish Pharmaceutical Society, Finland  
Sven Stegemann, Geriatric Medicine Society e.V., Germany  
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 - 00:00 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.



## 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](http://www.researchpharm.org) and send it to us.

Your contact for further information is:

Heide Zweyer

+ 49 6131 97 69 90

hz@apv-mainz.de

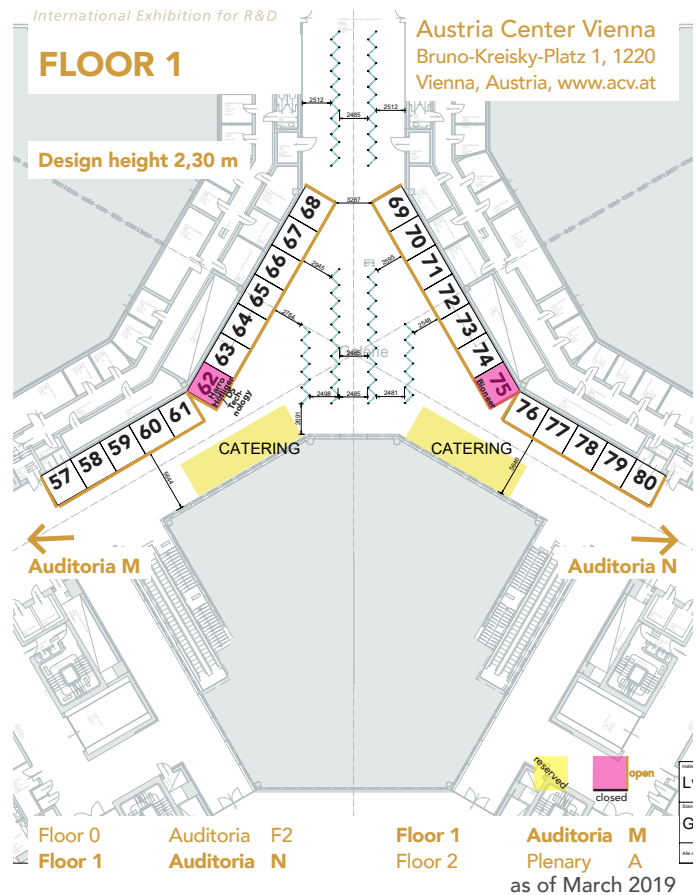
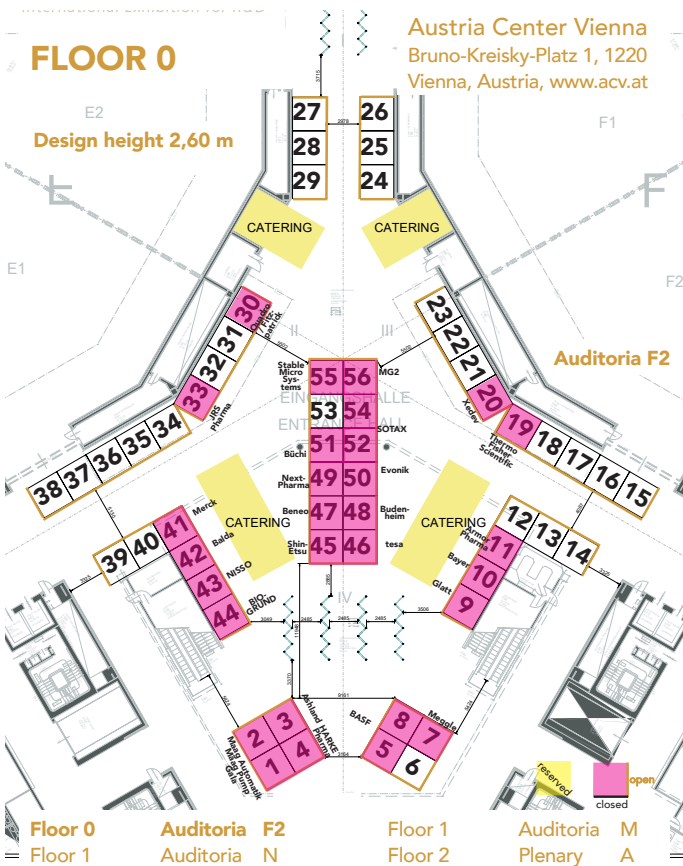
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Gain direct access to the delegates of the PBP World Meeting through enhanced visibility and exposure to attract new business. Are you interested in knowing more about our sponsoring opportunities for the PBP World Meeting?

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

For more information on sponsoring options visit our homepage [www.worldmeeting.org](http://www.worldmeeting.org) or contact Heide to learn more about our sponsoring and tailor-made packages.

Take advantage of this great event to showcase your company and your products to an international and very versatile audience!  
Many thanks to our sponsor:



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

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



## Venue

**ACV**  
Austria Center Vienna  
  
Bruno-Kreisky-Platz 1  
1220 Vienna  
Austria  
  
www.acv.at

## Headquarter Hotel

**Lindner Hotel am Belvedere \*\*\*\***  
  
Rennweg 12  
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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 <sup>1</sup>	member <sup>2</sup>	240.00 € *	360.00 € *
	non-member	400.00 € *	520.00 € *
Academia	member <sup>2</sup>	520.00 € *	640.00 € *
	non-member	720.00 € *	840.00 € *
Industry	member <sup>2</sup>	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.

- <sup>1</sup> 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.
- <sup>2</sup> Members of all participating societies are requested to upload a membership proof (copy of membership card or membership invoice) to qualify for membership fee.

