## **USP Workshops**



December 11-12, 2019 USP Meetings Center | Rockville, MD



### **Final Agenda**

DAY ONE: Wednesday, December 11, 2019

Moderator: John Mauger, Ph.D.

Member, USP General Chapters-Dosage Forms 2015 Expert Committee

Professor & Associate VP for Health Sciences, University of Utah College of Pharmacy

8:30 – 9:00 a.m.	Registration & Coffee
9:00 – 9:30 a.m.	First-Principles Approaches and Surrogate Testing for Predicting In Vitro Dissolution Andre Hermans, Ph.D., Director, Analytical Sciences, Merck & Co.
9:30 – 10:00 a.m.	3D Printing for Fast Prototyping of Pharmaceutical Dissolution Testing Equipment for Nonstandard Applications* Przemysław Dorożyński, Ph.D., <i>Professor, Instytut Farmaceutyczny</i>
10:00 – 10:30 a.m.	A Systematic Approach to Develop Predictive Dissolution Models Fernando J. Muzzio, Ph.D., Distinguished Professor, Chemical and Biochemical Engineering, Rutgers University
10:30 – 11:00 a.m.	Morning Break
11:00 – 11:30 a.m.	<b>Dissolution Modeling for Real Time Release Testing (RTRT)</b> Hanlin Li, Ph.D., <i>Associate Director, Vertex Pharmaceuticals</i>
11:30 a.m. – 12:00 p.m.	<b>Development of Real Time Release Test of Tablet Dissolution*</b> Sarah Nielsen, Ph.D., <i>Principal Scientist, Janssen Pharmaceuticals</i>
12:00 – 12:30 p.m.	Q&A/Morning Panel Discussion
12:30 – 1:30 p.m.	Lunch

Boehringer Ingelheim Pharm Inc.

**Bio-relevant In vitro GI Model (TinyTIM-1) for Food Effect Prediction** Shirlynn Chen, Ph.D., *Director, External Alternative CMC Development,* 

1:30 - 2:00 p.m.

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# Advancements in In-Vitro Performance Testing of Drug Products

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2:00 – 2:30 p.m.	The BioGIT System for Assessing the Impact of Dose and Formulation on Early Exposure After Oral Administration Professor Christos Reppas, Department of Pharmacy, National and Kapodistrian University of Athens
2:30 – 3:00 p.m.	Afternoon Break
3:00 – 3:30 p.m.	<b>Dissolution for Products Applied to the Oral Cavity</b> Sandra Klein, Ph.D., Professor, <i>University of Greifswald, Department of Pharmacy</i>
3:30 – 4:00 p.m.	Utilizing Conventional Dissolution Technique to Predictive and Guide Successful Development of Gastro-Retentive Drug Delivery Systems Sanjay Patel, Associate Principal Scientist, Analytical Sciences, Merck
4:00 – 4:30 p.m.	Q&A/Moderated Discussion/Day One Conclusion
4:30 – 5:15 p.m.	Networking Reception

#### DAY TWO: Thursday, December 12, 2019

Moderator: Martin Coffey, Ph.D.

Member, USP General Chapters-Physical Analysis 2015 Expert Committee

Registration & Coffee

Research Fellow, Bausch & Lomb

8:30 - 9:00 a.m.

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9:00 <b>–</b> 9:30 a.m.	<b>Dissolution of Dosage Forms Containing Nanomaterials</b> Matthias Wacker, Ph.D., Associate Professor, Department of Pharmacy, Faculty of Science, National University of Singapore
9:30 – 10:00 a.m.	Use of Vertical Diffusion Cells in Dissolution Testing of Suppositories Kailas Thakker, Ph.D., Co-Founder Emeritus, Tergus Pharma, LLC
10:00 – 10:30 a.m.	<b>Dissolution of Stents</b> Katharina Pruessmann, <i>Ph.D. Student, University of Greifswald, Center of Drug Absorption and Transport</i>
10:30 – 11:00 a.m.	Morning Break

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11:00 – 11:30 a.m.	In Vitro Performance Testing for Intra-uterine, Topical and Transdermal Dosage Forms from the Biopharmaceutics Review Perspective Tapash Ghosh, Ph.D., Quality Assessment Lead, Biopharmaceutics, U.S. Food & Drug Administration
11:30 a.m. – 12:00 p.m.	In Vitro Characterizations of Topical and Transdermal Drug Products from the Product Quality Assessment Perspective Yang Yang, Ph.D., Division of Product Quality Research, U.S. Food & Drug Administration Daniel Willett, Ph.D., Chemist, U.S. Food & Drug Administration
12:00 – 12:30 p.m.	Q&A/Morning Panel Discussion
12:30 – 1:20 p.m.	Lunch
1:20 – 1:30 p.m.	Attendee Survey
1:30 – 2:00 p.m.	<b>Dissolution Methods for Orally Inhaled Drug Products*</b> Guenther Hochhaus, Ph.D., <i>Professor, Pharmaceutics, University of Florida, College of Pharmacy</i>
2:00 – 2:30 p.m.	<b>Dissolution of Inhalers</b> Paul W S Heng, Ph.D., <i>GEA-NUS Pharmaceutical Processing Research Laboraotory, Department of Pharmacy, National University of Singapore</i>
2:30 – 3:00 p.m.	Afternoon Break
3:00 – 3:30 p.m.	Assessing Dissolution of Oral Tablets Using an Artificial Stomach Duodenum Apparatus Changquan Calvin Sun, Ph.D., Professor and Director of Graduate Studies, Associate Department Head, Department of Pharmaceutics, University of Minnesota
3:30 – 4:00 p.m.	<b>Updates on IVIVC</b> Johannes Kraemer, Ph.D., <i>Member, USP General Chapters-Dosage Forums Expert Committee</i>
4:00 – 4:30 p.m.	Q&A/Moderated Discussion
4:30 – 4:40 p.m.	Closing Comments
4:45 p.m.	Workshop Concludes