FDA-MCERSI Workshop on Drug Dissolution in Oral Drug Absorption

In-person Workshop

May 23-24, 2023 8:20 AM-4:30 PM Eastern Time

DAY 1, Tue, May 23				
7:30 AM-9:00 AM	Breakfast and Registration			
	Room N103 Lecture Hall			
8:20 AM-8:25 AM	Welcome	Welcome		
	James Polli, PhD	Professor and Ralph F. Shangraw/Noxell Endowed Professor in Industrial Pharmacy and Pharmaceutics, Univ. of Maryland		
	Kimberly Raines, PhD	Branch Chief, Division of Biopharmaceutics, ONDP, OPQ, CDER, FDA		
8:25 AM-8:30 AM	Session Overview			
	Lynne S. Taylor, PhD	Retter Distinguished Professor of Pharmacy, Department of Industrial and Physical Pharmacy, Purdue University		
8:30 AM-9:00 AM Supersaturation via Acid-Base Interactions		e Interactions		
	Abu Serajuddin, PhD	Professor of Industrial Pharmacy, St John's University		
9:00 AM-9:30 AM	"Dissolved" Species: Biopharmaceutical Roles and Ways to Measure			
	Martin Brandl, PhD, Dr. habil	Full Professor, Department of Physics, Chemistry & Pharmacy, University of Southern Denmark		
9:30 AM-10:00 AM	Gastrointestinal Imaging with MRI: Providing Information about Conditions at the Site of Drug Delivery			
	Werner Weitschies, PhD	Professor of Biopharmaceutics, Center of Drug Absorption and Transport, University of Greifswald, Germany		
10:00 AM-10:30 AM	Break			
10:30 AM-11:00 AM	In Vitro Evaluation of Drug Presence in the Micellar Phase of Contents of Upper Small Intestine: Rationale, Challenges, Opportunities			
	Christos Reppas, PharmD, PhD	Professor of Pharmaceutics, Department of Pharmacy, National and Kapodistrian University of Athens, Greece		
11:00 AM-11:30 AM	Predicting Food Effects on Drug Absorption			
	Anette Müllertz, PhD	Professor in Oral Drug Delivery and Industrial Relations, University of Copenhagen, Denmark		
11:30 AM-12:00 PM	Panel Discussion			
Moderator:	Lynne S. Taylor, PhD	Retter Distinguished Professor of Pharmacy, Department of Industrial and Physical Pharmacy, Purdue University		
Panelists:	Abu Serajuddin, PhD	Professor of Industrial Pharmacy, St John's University		

	Martin Brandl, PhD, Dr. habil	Full Professor, Department of Physics, Chemistry & Pharmacy,		
	Werner Weitschies, PhD	University of Southern Denmark Professor of Biopharmaceutics, Center of Drug Absorption and		
		Transport, University of Greifswald, Germany		
	Christos Reppas, PharmD, PhD	Professor of Pharmaceutics, Department of Pharmacy, National and Kapodistrian University of Athens, Greece		
	Anette Müllertz, PhD	Professor in Oral Drug Delivery and Industrial Relations, University of Copenhagen, Denmark		
	Bhagwant Rege, PhD	Division Director, Division of Biopharmaceutics, ONDP, OPQ,		
		CDER, FDA		
12:00 PM-12:55 PM	Lunch			
12:55 PM-1:00 PM	Session Overview			
	Haritha Mandula, PhD	Senior Pharmaceutical Quality Assessor, BB3, DB, ONDP, OPQ, CDER, FDA		
1:00 PM-1:30 PM	Biorelevant In Vitro Testing-Di Zongming Gao, PhD	ssolution Method Development Beyond Compendial Approaches Research Chemist, DCDA, OTR, OPQ, CDER, FDA		
1:30 PM-2:00 PM	In Vivo Formulation Behavior and Drug Absorption			
	Patrick Augustijns, PhD	Full Professor, University of Leuven		
2.00 014 2.20 014				
2:00 PM-2:30 PM	Release Mechanisms of Amorphous Solid Dispersions			
	Lynne S. Taylor, PhD	Retter Distinguished Professor of Pharmacy, Department of Industrial and Physical Pharmacy, Purdue University		
2:30 PM-2:45 PM	Panel Session			
Moderator:	Haritha Mandula, PhD	Senior Pharmaceutical Quality Assessor, BB3, DB, ONDP, OPQ, CDER, FDA		
Panelists:	Zongming Gao, PhD	Research Chemist, DCDA, OTR, OPQ, CDER, FDA		
	Patrick Augustijns, PhD	Full Professor, University of Leuven		
	Lynne S. Taylor, PhD	Retter Distinguished Professor of Pharmacy, Department of		
		Industrial and Physical Pharmacy, Purdue University		
2:45 PM-3:00 PM	Break			
3:00 PM-4:00 PM	Breakout Sessions A			
Room N306-Breakout	Session A1 [Session Leads: Hanl	in Li, Vertex and Haritha Mandula, FDA]		
RTRT to replace in vitro dissolution: best practices to incorporate in vitro dissolution data into modeling				
Room N310-Breakout Session A2 [Session Leads: David Curran, GSK and Anitha Govada, FDA]				
Drug dissolution from nano-formulations Room N314-Breakout Session A3 [Session Leads: Kerstin Schaefer, Boehringer-Ingelheim and Hansong Chen, FDA]				
Non-compendial methods				
Room N301A-Breakout Session A4 [Session Leads: Anette Mullertz, Uof Copenhagen and Leah Falade, FDA]				

Drug dissolution from lipid-based formulations

DAY 2, Wed, May 24

7:30 AM-9:00 AM	Breakfast and Registration		
		N103 Lecture Hall	
8:20 AM-8:25 AM	Welcome		
	James Polli, PhD	Professor and Ralph F. Shangraw/Noxell Endowed Professor in Industrial Pharmacy and Pharmaceutics, Univ. of Maryland	
	Kimberly Raines, PhD	Branch Chief, Division of Biopharmaceutics, ONDP, OPQ, CDER, FDA	
8:25 AM-8:30 AM	Session Overview		
	Leah W. Falade, PhD	Pharmacologist, Division of Biopharmaceutics, ONDP, OPQ,CDER, FDA	
8:30 AM-9:00 AM	An FDA Perspective on QC Dissolution Test for Oral Drug Products Containing ASDs		
	Kevin Wei, PhD	Pharmacologist, Division of Biopharmaceutics, ONDP, OPQ, CDER, FDA	
9:00 AM-9:30 AM	Non-compendial Tools in Early Drug Product Development		
	Kerstin Julia Schaefer, PhD	Senior Associate Director, Material and Analytical Sciences Department, Boehringer-Ingelheim Pharmaceuticals Inc.	
	Corrine Jankovsky, PhD	Senior Scientist, Material and Analytical Sciences Department,	
		Boehringer-Ingelheim Pharmaceuticals Inc.	
9:30 AM-10:00 AM	Setting Up Dissolution Studies to Reflect Product Performance in the GI Tract		
	Jennifer Dressman, PhD	Group Leader, Pharmaceutical Technology, Fraunhofer Institute of Translational Pharmacology and Medicine	
10:00 AM-10:30 AM	Break		
10:30 AM-11:00 AM	Considering Free-Drug Concentrations in the GI Tract: Impact of Cyclodextrin and Food		
	Shinji Yamashita, PhD	Visiting Professor of College of Pharmaceutical Sciences, Ritsumeikan University	
11:00 AM-11:30 AM	Combined Dissolution/Permeation: Input for Rationalized Drug Formulation Development		
	Annette Bauer-Brandl, PhD	Full Professor, Department of Physics, Chemistry & Pharmacy, University of Southern Denmark	
11:30 AM-12:00 PM	Panel Session		
Moderator:	Leah W. Falade, PhD	Pharmacologist, Division of Biopharmaceutics, ONDP, OPQ, CDER, FDA	
Panelists:	Kevin Wei, PhD	Pharmacologist, Division of Biopharmaceutics, ONDP, OPQ, CDER, FDA	
	Kerstin Julia Schaefer, PhD	Senior Associate Director, Material and Analytical Sciences Department, Boehringer-Ingelheim Pharmaceuticals Inc.	
	Corrine Jankovsky, PhD	Senior Scientist, Material and Analytical Sciences Department, Boehringer-Ingelheim Pharmaceuticals Inc.	





Speaker Bios



Upcoming Events