AAPS Northeast Regional Discussion Group (NERDG)
2020 Annual Meeting
THURSDAY, April 16, 2020
Hartford Marriot Farmington, 15 Farm Springs Rd, Farmington, CT 06032

EVENT REGISTRATION

Please follow the link to register- https://aaps-nerdg.org/events/?action=evregister&event_id=8

Registration:

• Early registration fees are as follows and must be received by **April 08, 2020**:
o Students (undergraduate, graduate, and post doc) and unemployed: $70
o Industrial scientists and Faculty: $125
• On site and late registration for students, faculty and industrial scientists (on or after **April 08, 2020**) will be $175

Sponsorship opportunities are still available. Please contact Renée Kitson at Renee.Kitson@imcdus.com

KEYNOTE SPEAKERS

Scott Fountain, Ph.D.
Executive Director and General Manager
Charles River Laboratories
Presentation title: From Service Provider to Portfolio Partner – R&D Collaboration in Addressing Patient Need

Justin Hanes, Ph.D.
Lewis J. Ort Professor
Director, The Center for Nanomedicine at the Wilmer Eye Institute
Johns Hopkins University School of Medicine
Presentation title: Translation of Advanced Drug Delivery Technologies

ROUNDTABLE PRESENTATIONS

1. **Bioanalytical Development for in vivo Biomarkers and DMPK**
   Jan Beumer (University of Pittsburgh) and Marcel Musteata (Albany College of Pharmacy)

2. **Physicochemical and Biophysical Stability Assessments across Therapeutic Modalities**
   Maria Krisch (FreeThink Technologies), Pradyot Nandi (BMS), Bethany Verrilli (Alnylam)

3. **Computational Modeling to Aid Pharmaceutical Development – Solid State Chemistry**
   Yuriy Abramov (XtalPi Inc. and University of North Carolina), Dougyue Xin (Boehringer-Ingelheim Pharmaceuticals, Inc), Mike Lovette (Amgen)

4. **Inhalation/Respiratory Drug Development**
   David Cipolla (Insmed), Nitesh Kunda (St John's University), Andrew Brunskill (Merck & Co)

5. **Pharmaceutical Scale-Up Approaches**
   Angel Diaz (Pfizer), Bing-Shou Yan (Boehringer-Ingelheim Pharmaceuticals, Inc), Bodhi Chaudhuri (University of Connecticut)

SHORT TOPIC PRESENTATIONS

The Short Topic Presentation (STP) format is designed to give academic and industrial scientists in the field the opportunity to present and discuss their research in a smaller, more interactive setting. The presentation time is 20-25 min.

1. **The Importance of Excipient Critical Material Attributes on Continuous manufacturing**
   Yeli Zhang, DuPont

2. **Development and Evaluation of Thermo-responsive In-situ Hydrogels for Extended Release via Subcutaneous Administration**
   Wenzhan Yang, AstraZeneca

3. **Fraction of Drug Absorbed Predicted from In Vitro Flux Measurements**
   Konstantin Tsinman, Pion Inc.

4. **Solid Dispersion WizardTM, an Artificial Intelligence-Based Prediction System for Amorphous Solid Dispersions**
   Brian Phillips, Ashland Specialty Ingredients

5. **Preparation and assessment of nano-cocrystals**
   Dedong Wu, AstraZeneca

6. **Structural Characterization and Performance Prediction of Drug Products from Micro-images**
   Liping Zhou, DigiM Solutions

7. **Evaluation of Tablets Coated with an Ultra-high Solids Film Coating System in a High-throughput Continuous Coater**
   Nicole Mendonsa, Ashland Specialty Ingredients

8. **Modeling Gastrointestinal Motility The Multiple Moving Plug Model**
   Kevin Johnson, Intellipharm, LLC

9. **Decoding Compaction and Disintegration Behavior of L-HPC: Effect of Material Properties of Different Grades**
   Saurabh Misra, SE Tylose USA Inc.

10. **PlasdoneTM S630 Ultra copovidone: a Polymeric Solid Dispersion Carrier Designed and Engineered for Hot Melt Extrusion (HME) Process**
    Shao-Yu Chang, Ashland Specialty Ingredients

11. **Molecular Dynamics Modeling Based Investigation of Cryoconcentration of Solutes during Freezing and Its Impact on Protein Stability**
    Tibo Duran, University of Connecticut

12. **Dithiolethiones D3T and ACDT Exert Neuroprotection Against Iron Overload-Induced Ferroptosis in Human Glioblastoma Cells.**
    Neha Kulkarni, MCPHS

ACADEMIC RESEARCH AWARD PRESENTATIONS

The Academic Research Award (ARA) is limited to graduate students who are currently pursuing Master's, Doctorate and PharmD degrees. Each student selected to participate will give a 15 min slide presentation to the judging committee as well as general audience. The students will be judged on the research content as well as the presentation skills including the ability to communicate to a wide audience.

1. **Impact of Intraperitoneal Catheter Dimensions on Cellular Response**
   Jia He, University of Connecticut

2. **Qualitative and Quantitative Comparison of Genexol®PM (RLD) with Paclitaxel-Loaded Polymeric Micelles Produced via Co-Axial Co-Flow Continuous Processing Technology**
   Anand Gupta, University of Connecticut

3. **Comprehensive Monitoring of Testosterone by Microextraction and Ultrafiltration**
   Dorina Cibotaru, Albany College of Pharmacy and Health Sciences

4. **Will male enhancement nutraceuticals sold online on Amazon provide benefit or unintended consequences?**
   Mark Mikhail, University of Saint Joseph

5. **Development of Biocompatible Spin Tip Microextraction Devices with Polyacrylonitrile**
   Daniel Galke, Albany College of Pharmacy and Health Sciences

6. **Preparation of Polymeric Albumin Nanoparticles Via a One Step Spray Drying Process**
   Ayushi Saxena, MCPHS University

POSTER PRESENTATIONS

Poster #	Presenter	Organization	Poster Title
1	Reina Kitagawa	MCPHS University	Formulation of Rivastigmine, a Liquid Drug Substance, for Use in Hollow Microstructured Transdermal Delivery System
2	Aruna Railkar	Quotient Sciences	Application of Translational Pharmaceutics In Accelerating The Development Of Modified Release Dosage Forms
3	Daniel Greene	Amgen	Preclinical development of thermosensitive hydrogel drug delivery systems for sustained release
4	Vishal Rathod	Long Island University	Multicriteria Optimization, Computational Predictability, and Quantitative Validation of Amorphous Nanosuspension of Ritonavir
5	Burooj Ilyas	MCPHS University	Synthesis of the Antibacterial Natural Product Caboxamycin as Part of the Open Source Malaria Project
6	Kofi Hagan	ACPHS	Endogenous Cannabinoid System at the Blood Brain Barrier: Regulations and Functions of Endocannabinoids
7	Tanjheela Jahan	Northeastern University	Manipulating Mitochondrial Dynamics in MDR Cancer
8	Maria Krisch	Freethink Technologies	Activ-Blister™ solutions provide superior protection of a model drug product over cold-form foil
9	Aniket Wahane	University of Connecticut	Engineering “PLGA-Histidine” based nanoformulations for enhanced delivery of small molecule and nucleic acid drugs
10	Chase Palmer	University of New England	A Novel Blood-Based Biomarker Distinguishes Estrogen-Negative Solid Tumors in Patient Samples
11	Shrey Shah	MCPHS University	In Vitro Assessment of Stearyl Triphenyl Phosphonium Toxicity in Drug Resistant Tumor Cells
12	Tingting Li	University of Connecticut	Optimization of spray drying mucoadhesive microparticles using design of experiments (DoE)
13	Tanvi Deshpande	MCPHS University	Thiocarbamates as potential PTP1B Inhibitors
14	Tanu Mehta	University of Connecticut	Pharmaceutical Application of Inkjet Based 3D Printing Process
15	Sameera Sansare	University of Connecticut	Development of a coupled CFD-DEM multiphase model for a fluidized bed dryer process
16	Gowtham Yenduri	University of Connecticut	Establishing a Safe Space for Continuous Manufacturing Platform

17	Andrella King	MCPHS University	Integrity of the Blood Brain Barrier in a Rat Model of Gliadin-Induced Enteropathy
18	Jose Paredes Quiroz	MCPHS University	Analogues of Homotaurine as possible Treatment for Alzheimer's Disease
19	Wei-Chung Luo	University of Connecticut	The Impact of Lyoprotectants and Freeze-Drying Process on Stability of Nanocarriers
20	Sunghwan Cho	ACPHS	Investigation into the Effect of Human Cytochrome P450 2C9*30 Genetic Variant on Drug Metabolism
21	Hossain Aziz	University of Connecticut	Development of a coupled CFD-DEM model for drug dissolution testing
22	Jin Li	University of Connecticut	Identification of Biomakers for Exercises in Insulin-Treated Diabetic Rat Model
23	Shao-Yu Chang	Ashland Specialty Ingredients	Physio-mechanical Properties of Ultra-Fine Particle Size Low Molecular Weight hydroxypropylcellulose: Effect of Binder Particle Size on Tablet Performance
24	Sunil Kumar	DFE Pharma	Excipient risk mitigation
25	Sunil Kumar	DFE Pharma	Correlation between excipient material attributes and powder feeder systems

AAPS-NERDG 2020 Planning Committee
https://aaps-nerdg.org/