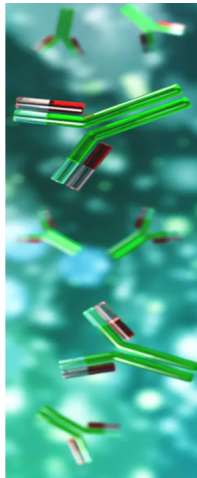


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Symposium on Innovative Technologies in Biopharma Sciences

Applying Technology to Understanding Biology

October 24-25, 2018 Mtech/
 University of Maryland



A. JAMES CLARK
 SCHOOL OF ENGINEERING

**MARYLAND TECHNOLOGY
 ENTERPRISE INSTITUTE**

October 24 - 25, 2018

**University of Maryland -
 Institute for Bioscience and
 Biotechnology Research**

**9600 Gudelsky Drive
 Rockville, MD 20850**

**For further information
 please contact your local
 Agilent representative.**

Registration is required.

Join us for this 2-day symposium where we apply new technologies and techniques to understand biology.

Day 1 will feature a series of talks and workshops focusing on Discovery

- Integration of Biomarkers into Bioanalytical Research
- Intact Protein Quant in Preclinical PK
- High Throughput Screening – New Technologies

Day 2 will focus on Development and Characterization with both presentations and workshops.

This symposium will appeal to scientists at all levels in academia, government and biopharmaceutical companies. Leading scientists in the field will present their research highlighting the new approaches, strategies and greatest challenges in the biopharmaceutical field.

As part of our continuing support of biopharmaceutical research, Agilent is a proud **GOLD** sponsor of the symposium.

Register now

Silver Sponsors



Lunch, parking and break snacks will be provided

Co-Hosted By:



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 RESEARCH**



A. JAMES CLARK
 SCHOOL OF ENGINEERING
 MARYLAND TECHNOLOGY
 ENTERPRISE INSTITUTE

October 24, 2018

9:00 AM - 9:15 AM

Registration

9:15 AM - 9:45 AM

Adam Rosebrock, Ph.D., Stony Brook University School of Medicine, *"Determining Antimicrobial Mode of Action by Targeted Ion-Paired LC-MS"*

9:45 AM - 10:15 AM

Nichole Reisdorph, Ph.D., University of Colorado, Denver, *"Mass Spectrometry in Discovery and Validation of Small Molecule Biomarkers for Bioanalytical Pharma Applications"*

10:15 AM - 10:55 AM

Breakout 1 – Workshops offered on Multi-omics software, Biopharma consumables AssayMap robotic sample preparation for HCP, glycan profiling, and protein enrichment

10:55 AM - 11:25 AM

André LeBlanc, Ph.D., MRM Proteomics Inc, *"Precise Multiplexed Proteomics Assays for the Absolute Quantitation of Proteins in Mouse"*

11:25 AM - 11:55 AM

Michelle Robinson, Ph.D., Pharmacokinetics, Pharmacodynamics and Drug Metabolism, Merck & Co., Inc., West Point, PA, USA, *"Improving the Efficiency of Immunoaffinity Purification and Enzymatic Digestion of Monoclonal Antibodies using Capturem Technology"*

11:55 AM - 12:40 PM

LUNCH

12:40 PM - 1:20 PM

Breakout 2 - Workshops offered on Multi-omics software, Biopharma consumables AssayMap robotic sample preparation for HCP, glycan profiling, and protein enrichment

1:20 PM - 1:50 PM

Lisa O'Callaghan, Ph.D., Pharmacokinetics, Pharmacodynamics and Drug Metabolism, Merck & Co., Inc., West Point, PA, USA, *"Intact Monoclonal Antibody Quantitation for Preclinical Pharmacokinetic Drug Development"*

1:50 PM - 2:20 PM

William Sawyer, Ph.D., Genentech, *"High Throughput Analysis of Bispecific Antibodies for Clone Selection using RapidFire MS"*

2:20 PM - 3:00 PM

Breakout 3 - Workshops offered on Multi-omics software, Biopharma consumables AssayMap robotic sample preparation for HCP, glycan profiling, and protein enrichment

3:00 PM - 3:30 PM

Nicholas Pierson, Ph.D., Merck & Co, Ion Mobility HT screening and Collision Induced Unfolding

3:30 PM - 4:00 PM

TBA

4:00 PM – 5:00 PM

Reception

October 25, 2018

9:00 AM - 9:15 AM

Registration

9:15 AM - 9:45 AM

John Schiel, Ph.D., NIST/IBBR, *"The Emerging Roles of MS-based MAM in Biopharmaceutical Development"*

9:45 AM - 10:15 AM

Dwight Stoll, Ph.D., Gustavus Adolphus College, *"2D-LC-Multi-Purpose for Liquid Chromatography HRAM – A Perspective from Biopharm Analysis"*

10:15 AM - 10:55 AM

Breakout 1 – Workshops offered on Bioconfirm software, OligoSearch Software, GlycReSoft Software and Biopharma consumables

10:55 AM - 11:25 AM

Catherine Costello, Ph.D., Boston University, *"Ion Mobility-ECD Tandem MS Analysis of Peptide Mixtures and Glycoprotein Digests on an IM QTOF Mass Spectrometer"*

11:25 AM - 11:55 AM

Jack Henion, Ph.D., Q² Solutions, *"Top-Down Quantitative Determination of Intact Antibody Proteins in Biological Samples by Multi-Dimensional LC/QTOF Mass Spectrometry"*

11:55 AM - 12:40 PM

LUNCH

12:40 PM - 1:20 PM

Breakout 2 - Workshops offered on Bioconfirm software, OligoSearch Software, GlycReSoft Software and Biopharma consumables

1:20 PM - 1:50 PM

Jun Dai, Ph.D., Separation and Analysis Technology Team, Bristol-Myers Squibb, Princeton, *"Online Capillary Isoelectric Focusing-Mass Spectrometry Separation and Characterization of Monoclonal Antibody Charge Variants at Intact and Domain Levels"*

1:50 PM - 2:20 PM

Harsha Gunawardena, Ph.D., Janssen Research and Development, The Janssen Pharmaceutical Companies of Johnson & Johnson, *"Mass spectrometric Investigations of clipping in Biotherapeutics and the utility of Host Cell Protein (HCP) analysis workflows during Early Development"*

2:20 PM - 3:00 PM

Breakout 3 - Workshops offered on Bioconfirm software, OligoSearch Software, GlycReSoft Software and Biopharma consumables

3:00 PM - 3:30 PM

James Dodds, Ph.D., North Carolina State University, *"Rapid Separation and Characterization of Isomeric Species Utilizing Ion Mobility-Mass Spectrometry: Developing a Framework for Untargeted Approaches"*

3:30 PM - 4:00 PM

Joseph Meeuwssen, Ph.D., e-MSIon, Inc, *"Top-down Protein Characterization with e-MSIon's ExD Cell on Q-ToFs"*

4:00 PM – 4:40 PM

Breakout 4 - Workshops offered on Bioconfirm software, OligoSearch Software, GlycReSoft Software and Biopharma consumables