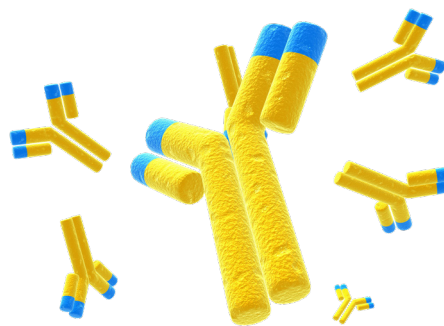


Analytical Considerations When Developing ADCs, Bispecifics and Other Biotherapeutics

A Scientific Technology Summit

AUGUST 14-15, 2018

Waters Corporation
5720 Stoneridge Drive, Suite 200
Pleasanton, CA 94588



PRELIMINARY AGENDA - Day 1 - Tuesday, August 14th

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| 11:00 am | Arrival/Registration |
| 11:30 am | Complimentary Lunch |
| 12:00 pm | Welcome to Waters
<i>Luis Vaca, Waters</i> |
| 12:10 pm | Summit Introductions
<i>Ananya Dubey Kelsoe, Waters</i> |
| 1:00 pm | Overview of CMC Challenges, Regulations and Strategies for Biologics- From Today to MAM
<i>Jeffrey Staecker, BioPhia Consulting</i> |
| 1:35 pm | The AQCUIITY® Arc Bio System - A biocompatible UHPLC platform for your daily bioseparations challenges
<i>Brooke Koshel, Waters</i> |
| 2:05 pm | Application of a Novel Phenyl RPLC Column for Heightened Characterization of Hydrophobic Monoclonal Antibodies and Antibody Drug Conjugates
<i>Jacquelynn Smith, Pfizer</i> |
| 2:40 pm | Break |
| 3:00 pm | Early Stage LC-MS Based Workflow for N-Glycan Analysis and PTM Identification for Bispecific IgGs
<i>Gary Li, Aptevo Therapeutics</i> |
| 3:35 pm | Biophysical Characterization of Antibody Conjugates and Related Species
<i>Shawn Owen, University of Utah</i>
Stability and Contamination Studies of Antibodies using Isothermal Calorimetry
<i>Colette Quinn, TA Instruments</i> |
| 4:05 pm | Beyond Aggregates: Light Scattering Tools for Studying Protein Binding and Stability
<i>Sophia Kenrick, Wyatt Technology</i> |
| 4:35 pm | Technical Round Table Session #1: Regulatory Requirements and Analytical Challenges for Development of Biologics
<i>Co-led by Jeff Staecker, BioPhia and Ann Gray, Waters</i> |
| 5:15 pm | Travel to Hotel/Restaurant |
| 5:30 pm | Poster Viewing and Cocktails at Restaurant |
| 6:15 pm | Dinner at Hap's Original Restaurant, 122 West Neal Street, Pleasanton |

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PRELIMINARY AGENDA - Day 2 - Wednesday, August 15th

WORKING LAB SESSIONS

- 8:30 am Day 2 Welcome
Ananya Dubey Kelsoe, Waters
- 8:35 am High Throughput Application of High Resolution LC-MS for Upstream and Downstream Biotherapeutics Process Development
Daniella Cohen, Systimmune
- 9:10 am Deploying a Fit for Purpose LCMS Platform in Biopharmaceutical Regulated Development & QC
Min Du, Waters
- 9:45 am Session 1:
- Group A: Multi-Attribute Monitoring Workflows in UNIFI® Scientific Information System
Nilini Ranbaduge, Waters
 - Group B: Application of High Resolution MS: Native Protein Analysis
Maria Basanta Sanchez, Waters
 - Group C: Routine Monitoring of Peptides using I-Class and ACQUITY® QDa® System
Emily Sible, Waters
- 10:20 am Coffee Break
- 10:30 am Session 2:
- Group A: Routine Monitoring of Peptides using I-Class and ACQUITY® QDa® System
Emily Sible, Waters
 - Group B: Multi-Attribute Monitoring Workflows in UNIFI® Scientific Information System
Nilini Ranbaduge, Waters
 - Group C: Application of High Resolution MS: Native Protein Analysis
Maria Basanta Sanchez, Waters
- 11:05 am Session 3:
- Group A: Application of High Resolution MS: Native Protein Analysis
Maria Basanta Sanchez, Waters
 - Group B: Routine Monitoring of Peptides using I-Class and ACQUITY® QDa® System
Emily Sible, Waters
 - Group C: Multi-Attribute Monitoring Workflows in UNIFI® Scientific Information System
Nilini Ranbaduge, Waters
- 12:10 pm Lunch
- 1:00 pm Employment of Denaturing UPLC-MS and Native-MS to Expand Membrane Protein Characterization in a Biopharmaceutical Setting
Jennifer Lippens, Amgen Inc.
- 1:40 pm Application of HDX-MS in Antibody Discovery
Deepa Balasubramaniam, Eli Lilly and Company
- 2:15 pm Technical Round Table Session # 2: Heterogenous and Evolving Role of Mass Spectrometry for Biotherapeutics Development and Quality Control
Co-Led by Richard Seipert, Genentech and John Gebler, Waters
- 3:00 pm Meeting Conclusion & Departures