

2011 ASMS/AAPS Fall Workshop

High Resolution Mass Spectrometry in Drug Discovery and Drug Development: Current Applications and Future Perspectives

Organizers: Ragu Ramanathan, *Bristol-Myers Squibb Co.*
& Walter Korfmacher, *Consultant*

Room 143 at the Walter E Washington Convention Center

Saturday, October 22

- 8:45 - 9:45 am "Fundamentals of High Resolution Mass Spectrometry"
Richard LeLacheur, *Taylor Technology*
- 9:45 - 10:00 am Break
- 10:00 - 10:40 am "The Utility of HRMS for Drug Discovery Applications"
Walter Korfmacher, *Consultant*
- 10:40 - 11:20 am "The Role of HRMS for solving Drug Development problems Related to
Metabolite in Safety Testing (MIST)"
Ragu Ramanathan, *Bristol-Myers Squibb*
- 11:20 - Noon Panel Discussion
- Noon - 1:00 pm Lunch, *Room 146*
- 1:00 - 2:00 pm "Fundamentals of Time-of-Flight Mass Spectrometry"
Robert J. Cotter, *Johns Hopkins University*
- 2:00 - 2:40 pm "Is TOF-MS Based Integrated Qualitative and Quantitative Bioanalysis the Future
of DMPK Applications?"
Kevin Bateman, *Merck & Co.*
- 2:40 - 2:55 pm Break
- 2:55 - 3:35 pm "Applications of TOF-MS for Biotransformation of Drugs: Application of Data
Dependent Mass Defect Filter and Other Software Tools for Metabolite Detection
and Characterization"
Hesham Ghobarah, *AB Sciex, Canada*
- 3:35 - 4:05 pm "Applications of TOF-MS for Quantification of Small Molecules and Peptides in
Drug Discovery"
Asoka Ranasinghe, *Bristol-Myers Squibb*
- 4:05 - 4:45 pm Panel Discussion
- 4:45 - 5:00 pm Day 1 Summary
Ragu Ramanathan and Walter Korfmacher
- 5:00 - 7:00 pm Reception
co-sponsored by Advion, Agilent Technologies & Thermo Scientific

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Sunday, October 23

8:00 - 9:00 am	"Fundamentals of Orbitrap Mass Spectrometry" Alexander Makarov , <i>Thermo Scientific</i>
9:00 - 9:40 am	"Application of Orbitrap-MS and Hybrid Orbitrap-MS for Integrated Qualitative and Quantitative Bioanalysis" Jonathan Josephs , <i>Bristol-Myers Squibb</i>
9:40 - 9:50 am	Break
9:50 - 10:30 am	"The Use of HR-MS for Metabolite Profiling" Natalia Penner , <i>Biogen-Idec</i>
10:30 - 11:10 am	"Applications of HRMS in Drug Discovery Proteomics" Nathan Yates , <i>Merck & Co.</i>
11:10 - 11:30 am	Panel Discussion
11:30 - 12:30 pm	Lunch, <i>Room 146</i>
12:30 - 1:30 pm	"Fundamentals and Utility of FTICR Mass Spectrometry in Drug Discovery and Development" Jon Amster , <i>University of Georgia</i>
1:30 - 2:10 pm	"Characterization of Surface-Extractable Analytes by High Resolution Mass Spectrometry" Jack Henion , <i>Advion BioSciences, Inc.</i>
2:10 - 2:25 pm	Break
2:25 - 3:05 pm	"Practical Application of HRMS for Identification of Unknowns and Characterization of Mixtures of Interest to the Health Care Industry" Timothy R. Baker , <i>Procter & Gamble</i>
3:05 - 3:45 pm	Panel Discussion
3:45 - 4:00 pm	Closing Remarks and Summary Ragu Ramanathan and Walter Korfmacher