

**2012 ASMS Fall Workshop**  
**Mass Spectrometry-Based Protein Phosphorylation Analysis and Phosphoproteomics**

Organizers: Joshua Coon, *University of Wisconsin*  
& W. Andy Tao, *Purdue University*

**Thursday, November 8**

- 8:00 - 9:00 Pick up name badges and workshop handouts
- 9:00 - 9:45 Overview of Mass Spectrometry-Based Phosphorylation Analysis  
Ruedi Aebersold, *Institute of Molecular Systems Biology, ETH*
- 9:45 - 10:30 Isolation of Phosphorylated Proteins and Peptides  
Martin Larsen, *University of Southern Denmark*
- 10:30 - 10:45 Break
- 10:45 - 11:30 Fractionation of Phosphopeptides  
Jarrod Marto, *Dana-Farber Cancer Institute*
- 11:30 - 12:00 Panel Discussion: Sample Preparation for Phosphorylation Analysis
- 12:00 - 1:30 Lunch
- 1:30 - 2:15 Dissociation Methods for Phosphopeptide Analysis  
Joshua Coon, *University of Wisconsin*
- 2:15 - 3:00 Identification of Phosphorylation Sites in Shotgun Proteomics Experiments  
Scott Gerber, *Dartmouth College*
- 3:00 - 3:15 Break
- 3:15 - 4:00 Quantitative Measurement of Protein Phosphorylation  
Jesper Olsen, *University of Copenhagen*
- 4:00 - 4:30 Panel Discussion: Phosphopeptide Data Acquisition, Identification and Quantitation
- 4:30 - 5:30 Reception  
Sponsored by



## Friday, November 9

- 9:00 - 9:45      Software Tools for Phosphoproteomics  
Jesper Olsen, *University of Copenhagen*
- 9:45 - 10:30    Network-Wide Analysis of Protein Tyrosine Phosphorylation  
Forest White, *MIT*
- 10:30 - 10:45    Break
- 10:45 - 11:30    Measuring Relative and Absolute Phosphorylation Stoichiometries  
Steven Gygi, *Harvard Medical School*
- 11:30 - 12:00    Panel Discussion: Software Tools for Phosphoproteomics
- 12:00 - 1:30     Lunch
- 1:30 - 1:55      Phosphoproteomic Analysis of RSK-Dependent Signal Transduction  
Philippe Roux, *University of Montreal*
- 1:55 - 2:40      Proteomic Identification of Direct Kinase Substrates  
W. Andy Tao, *Purdue University*
- 2:40 - 2:55      Break
- 2:55 - 3:40      Kinase-Substrate Network  
Ruedi Aebersold, *Institute of Molecular Systems Biology, ETH*
- 3:40 - 4:10      Panel Discussion: Phosphorylation and Signaling Network
- 4:10 - 4:30      Closing Remarks and Summary