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

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Cell Signaling Technology

Thermo Scientific
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