



8th Annual Conference

The Future of Proteomics

March 4 - 7, 2012 • Palace Hotel • San Francisco, CA

US HUPO Office • 2019 Galisteo St, Bldg I-1, Santa Fe, NM 87505 • office@ushupo.org • www.ushupo.org

Organizers: Karin Rodland, Ralph Bradshaw, Joshua LaBaer, Susan Fisher, Joseph Loo

Sunday, March 4, 2012

- 9:00 am - 4:00 pm **Short courses**
- 6:15 pm Opening remarks
- 6:30 - 7:30 pm **Keynote Lecture with discussion**
Ruedi Aebersold, *ETH Zurich*
"The Future of Proteomics"
- 7:30 – 9:00 pm **Opening Reception**

Monday, March 5, 2012

- 8:30 - 9:30 am **Plenary Lecture**
Paul Spellman, *Oregon Health Sciences University*
"Lessons from TCGA"
- 9:30-10:30 am **Concurrent session 1: Non-Traditional Proteomics**
Robert Murphy, *Carnegie Mellon University*
"Subcellular Localization of Proteins"
Richard Caprioli, *Vanderbilt University*
"Tissue Imaging Proteomics"
Short Talk
- Concurrent session 2: Signaling Pathways**
Tony Pawson, *Mount Sinai Hospital, Toronto*
"Adaptor Proteins and Signaling Networks"
Forest White, *Massachusetts Institute of Technology*
"Oncogenic Phosphorylation Networks"
Short Talk
- 10:30-11:00 am **Coffee break**
- 11:00-12 noon **Concurrent session 3: Metabolomics and Lipidomics**
Ed Dennis, *University of California, San Diego*
"Lipid Maps"
Carlito Lebrilla, *University of California, Davis*
Title TBD
Short talk
- Concurrent session 4: Infectious Diseases**
Nevan Krogan, *University of California, San Francisco*
"Human-HIV Protein Interactions"
Joshua Adkins, *Pacific Northwest National Laboratory*
"Proteomics of Type III Secretion System Effectors"
Short talk
- 12:15-1:30 pm **Vendor Lunch Seminars**
- 1:30 – 3:00 pm **Posters & Exhibits**

Monday, March 5, 2012, continued

3:00 - 5:00 pm **Concurrent session 5: Bioinformatics at the Genome/Proteome Interface**

Kai Wang, *Institute for Systems Biology*

"Combining mRNA and miRNA"

Katrina Waters, *Pacific Northwest National Laboratory*

"Integration of Multiple Omic Data types for Pathway Analysis"

Short Talks

Panel Discussion: Integrating Genomic and Proteomic Information

Concurrent session 6: Biomarkers and Disease

Amanda Paulovich, *Fred Hutchinson Cancer Research Center*

"Pipeline for Targeted Proteomics in Biomarker Discovery"

Oliver Fiehn, *University of California, Davis*

"Integrated Metabolomics and Cancer Biomarkers"

Short Talks

Panel Discussion: Biomarkers and Clinical Diagnostics

5:00 - 5:30 pm **Happy Half-Hour Mixer**

5:30 - 7:00 pm **Evening Concurrent Workshops**

- Targeted Proteomics
- Moving Omics-based Tests into the Clinical Lab

Tuesday, March 6, 2012

8:30 am-9:30 am **Plenary Lectures**

Michael Snyder, *Stanford University*

Title TBD

Samir Hanash, *Fred Hutchinson Cancer Research Center*

Title TBD

9:30 - 10:30 am **Concurrent session 7: Pan PTMs – Beyond Phosphorylation**

Al Burlingame, *University of California, San Francisco*

"O-GlycNAcylation and other PTMs"

Short talks

Concurrent session 8: Engineering Proteins in the Plant World

Steve Briggs, *University of California, San Diego*

"Functional Proteomics of Plants"

Klaas van Wijk, *Cornell University*

"Organelle Biogenesis, Differentiation and Protein Homeostasis in Plants"

Short Talk

10:30 – 11:00 am **Coffee break**

11:00-12 noon **Concurrent session 9: Proteomic Data Repositories**

Eric Deutsch, *Institute for Systems Biology*

"PSI-MS"

David Tabb, *Vanderbilt University*

"Wheat from Chaff: Strategies for Interrogating Public Data Sets"

Short talk

Concurrent session 10: Novel Applications

Joshua Coon, *University of Wisconsin-Madison*

"Applications of ETD"

Garry Nolan, *Stanford University*

"Single Cell Proteomics / CyTOF"

Short Talk

12:15-1:30 pm **Vendor Lunch Seminars**

1:30 – 3:00 pm **Posters & Exhibits**

Tuesday, March 6, 2012, *continued*

3:00 - 4:30 pm **Concurrent session 11: Career Development: Biotechnology**

Introductory Remarks: Fred Regnier, *Purdue University*

Short talks from Graduate Students, Post-docs, Junior Faculty

Best poster award

Concurrent session 12: Career Development: Applications

Introductory Remarks: Catherine Costello, *Boston University Medical Center*

Short talks from Graduate Students, Post-docs, Junior Faculty

Best poster award

4:30 – 5:00 pm **US HUPO Business Meeting**

5:00 - 5:30 pm **Happy Half-Hour Mixer**

5:30 - 7:00 pm **Evening Concurrent Workshops**

- Data Repositories
- Pharma and Proteomics

Wednesday, March 7

8:30 - 10:00 am **Concurrent session 13: Frontiers in Mass Spectrometry Technologies**

Lan Huang, *University of California, Irvine*

“Cell Permeable Cross-Linking”

Eric Verdin, *Gladstone Institute, University of California, San Francisco*

“Protein Acetylation and Metabolism”

Short talks

Concurrent session 14: Leveraging Genomics for Proteomics

David Schwartz, *University of Colorado Health Sciences Center*

“Inferring Clinical Treatments for Asthma through Comparative Genomics”

Short talks

10:00 - 10:30 am **Coffee break**

10:30 - 11:45 am **Plenary Lecture and Closing Remarks**

Keith Yamamoto, *University of California, San Francisco*

“Twenty-First Century Science”