

## Workshop II: Medical Applications and Protein Networks

### Monday April 19, 2004

- 8:00–8:45 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:45–9:00 *Welcome and Opening Remarks*
- 9:00–10:00 **Allan Butterfield** (University of Kentucky)  
*Proteomics Analysis of Oxidatively Modified Proteins in Alzheimer's Disease Brain: New Insights Into Mechanisms of Neurodegeneration*
- 10:00–10:30 *Break*
- 10:30–11:30 **John Yates** (Scripps Research Institute)  
*Towards Comprehensive Proteomic Analysis of Cells and Tissues*
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Kevin Wang** (University of Florida)  
*Applying Proteomics in Brain Injury Studies.*
- 2:30–3:00 *Break*
- 3:00–4:00 **Lisa Ellerby** (Buck Institute for Age Research)  
*Proteomics of Polyglutamine Expansion Diseases*
- 4:00–5:00 **Kelvin Lee** (Cornell University)  
*Proteomics and the Antemortem Diagnosis of Neurodegenerative Diseases*
- 5:00–7:00 *Wine Reception (Hosted by IPAM)*

### Tuesday April 20, 2004

- 8:30–9:00 *Continental Breakfast*
- 9:00–10:00 **Brian Chait** (Rockefeller University)  
*Proteomic Tools for Dissecting Cellular Function*
- 10:00–10:30 *Break*
- 10:30–11:30 **Katheryn Resing** (University of Colorado)  
*Proteomics Studies for Signal Transduction Research and in Characterizing Melanoma Cell Lines with Different Tumorigenic and Metastatic Potential*
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Robert Hughes** (Prolexys Pharmaceuticals)  
*Protein interaction mapping and human disease: Studies of Huntington's disease and Malaria.*
- 2:30–3:00 *Break*

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- 3:00–4:00     **James Liao** (UCLA)  
*Network Component Analysis*
- 4:00–5:00     **Joseph Loo** (UCLA)  
*Protein Complexes as Viewed by Mass Spectrometry*

### Wednesday April 21, 2004

- 8:30–9:00     *Continental Breakfast*
- 9:00–10:00    **Richard Smith** (Environmental Molecular Sciences Laboratory)  
*Advanced Comprehensive and Quantitative Proteomics Technologies for Medical Applications*
- 10:00–10:30   *Break*
- 10:30–11:30   **Jennifer Van Eyk** (Johns Hopkins University)  
*Proteomics of heart disease...from molecular mechanisms to clinical diagnostics*
- 11:30–1:30    *Lunch (on your own)*
- 1:30–2:30     **Peipei Ping** (UCLA)  
*Functional proteomic characterization of multiprotein complexes in ischemia and cardiac protection*
- 2:30–3:00     *Break*
- 3:00–4:00     **Maria Pallavicini** (University of California at Merced)  
*TBA*
- 4:00–5:00     **Thomas Graeber** (UCLA)  
*Phosphorylation profiling of cancer using mass spectrometry*

### Thursday April 22, 2004

- 8:30–9:00     *Continental Breakfast*
- 9:00–10:00    **Tatiana Nikolskaya** (GeneGo Inc)  
*Analysis of Proteomics Data in the Context of Human Systems Biology*
- 10:00–10:30   *Break*

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- 10:30–11:30 **Jonathan Weissman** (University of California at San Francisco)  
*Global analysis of the yeast proteome*
- 11:30–1:30 *Lunch (hosted by IPAM)*
- 1:30–2:30 **Michael Apicella** (University of Iowa)  
*Use of a proteomic approach to identify secreted proteins of Neisseria gonorrhoeae*
- 2:30–3:00 *Break*
- 3:00–4:00 **Luis P. Villarreal** (University of California at Irvine)  
*TBA*
- 4:00–5:00 **Tina Guina** (University of Washington)  
*Proteomics in analysis of bacterial pathogens*

### Friday April 23, 2004

- 8:30–9:00 *Continental Breakfast*
- 9:00–10:00 **David Goodlett** (University of Washington)  
*Quantitative mass spectrometry to define subcellular fractions: insights to peroxisome biology.*
- 10:00–10:30 *Break*
- 10:30–11:30 **Rong Wang** (Mount Sinai School of Medicine)  
*Reduce Fat ? – Proteomic Study of Lipid Droplet in Adipocyte*
- 11:30–11:40 *Break*
- 11:40–12:40 **Bradford Gibson** (Buck Institute for Age Research)  
*The Mitochondrial Proteome and its Implications in Neurodegenerative Disease*
- 12:40–1:00 *Conclusion*

