February 18, 2016

A Scientific Summit on Imaging Across the Scales
Annenberg Community Beach House, Santa Monica, CA, USA

7:30a–8:00a  BUFFET BREAKFAST

Welcome and Introduction
8:00a–8:15a  Vadim Cherezov  ■  University of Southern California

m – Whole Body Imaging: Session Chair: Paul Finn  ■  UCLA
S1 8:15a–8:45a  From the Bench to the Clinic: Evolving Whole Body Imaging Techniques
Balancing Spatial and Temporal Resolution Considerations
Orest Boyko  ■  University of Southern California
S2 8:45a–9:15a  MRI at Multiple Spatial Scales
Krishna Nayak  ■  University of Southern California
D1 9:15a–9:45a  Discussion Session

9:45a–10:00a  COFFEE BREAK

μm – Cellular Imaging: Session Chair: Urbashi Mitra  ■  USC
S3 10:00a–10:30a  Imaging Cell and Molecular Events in Embodied Cells
Scott Fraser  ■  University of Southern California
S4 10:30a–11:00a  Cellular Imaging at the Mesoscale
Gerard McDermott  ■  University of California, San Francisco
S5 11:00a–11:30a  Imaging Molecular Scale Control of Cell and Tissue Morphogenesis
Gaudenz Danuser  ■  UT Southwestern
D2 11:30a–12:00n  Discussion Session

12:00n–1:00p  LUNCH BREAK

nm – Electron Microscopy: Session Chair: Clint Potter  ■  NYSBC
S6 1:00p–1:30p  Using Electron Microscopy to Understand the Dynamics of Molecular Machines
Bridget Carragher  ■  New York Structural Biology Consortium
S7 1:30p–2:00p  Electron Cryo-Microscopy of Molecular Machines
Wah Chiu  ■  Baylor College of Medicine
S8 2:00p–2:20p  CryoEM Structure of the Slo2.2 Na+-Activated K+ Channel
Richard Hite  ■  Rockefeller University
S9 2:20p–2:40p  Opening Windows into the Cell: Cryo-electron Tomography of Intact Cells for Structural Cell Biology
Elizabeth Villa  ■  University of California, San Diego
D3 2:40p–3:10p  Discussion Session

3:10p–3:30p  BREAK

Å – X-ray Crystallography: Session Chair: Jianwei Miao  ■  UCLA
S10 3:30p–4:00p  Time-Resolved Molecular Imaging Using X-ray Lasers
John Spence  ■  Arizona State University
S11 4:00p–4:30p  The Multi-Bend Achromat Lattice: a Game Changer for Structural Biology
Robert Fischetti  ■  Argonne National Laboratory
D4 4:30p–5:00p  Discussion Session

Conclusion
5:00p–5:20p  Ray Stevens  ■  University of Southern California

5:20p–5:30p  BREAK BEFORE DINNER
5:30p–7:30p  DINNER

Hosted by Bridge@USC,
Michelson Center for Convergent Biosciences