Quantitative BioImaging 2014 Program

Friday, January 10, 2014

08:30 Bus leaves hotel
08.30 - 09.00 Registration
08.55 - 09.00 Welcome
09.00 - 09.40 **Joerg Enderlein**, Georg August University of Göttingen, Germany. *Image Scanning Microscopy and Metal Induced Energy Transfer: Enhancing resolution in all directions*
09.40 - 10.20 **Jean-Christophe Olivo-Marin**, Institut Pasteur, France. *Quantitative Cell Dynamics*
10.20 - 10.40 **Edward Cohen**, Imperial College London, United Kingdom. *The Effect of Image Registration on the Localization of Single Molecules in a Microscopy Experiment*
10.40 - 11.00 Coffee Break
11.00 - 11.40 **Mark Bathe**, Massachusetts Institute of Technology. *Bayesian Model Selection for Quantitative Cell Biology based on Fluorescence Imaging*
11.40 - 12.00 **Trevor T. Ashley**, Boston University. *A Sequential Monte-Carlo Method for Identifying Motion Parameters from Particle Tracking*
12.00 - 13.00 Lunch
13.00 - 15.00 Poster Session (Coffee 14:30)
15.00 - 15.40 **Sripad Ram**, University of Texas Southwestern Medical Center. *3D Localization Techniques for Single Molecule Tracking and Super-resolution Microscopy*
15.40 - 16.00 **Michael Hirsch,** University of Cambridge, United Kingdom. *A Spatially and Temporally Globally Optimal Bayesian Single Particle Tracking Solution Reveals Basal Cell Surface EGFR Transport Underpinned by f-actin*
16.00 -16.20 **Christopher Calderon**, Numerica Corporation. *Scrutinizing 2D and 3D Single Particle Tracking Data via Goodness-of-Fit Hypothesis Testing Techniques*
16.20 -17.00 **Nico Stuurman**, University of California at San Francisco. *Open source software control of microscopes (Micro-Manager) and stage stability in single molecule imaging.*
17.00 - 17:40 Round table discussion: *Publishing interdisciplinary science.*
18.00 - 19:00 Reception (Drinks and Snacks)
19:15 Bus leaves to Hotel

Saturday, January 11, 2014

08:40 Bus leaves hotel
09.00 - 09.40 **Rainer Heintzmann**, University of Jena, Germany. *Image Reconstruction of Structured Illumination Data*
09.40 -10.20 **Sarah Veatch**, University of Michigan. *Using Pair Correlations to Probe Plasma Membrane Heterogeneity in Chemically Fixed and Live Cells*
10.20 - 10.40 **Robert Nieuwenhuizen**, TU Delft, The Netherlands. *Estimating the Average Number of Localizations per Emitter in Localization Microscopy*
10.40 - 11.00 Coffee Break
11.00 - 11.40 **Khuloud Jaqaman**, University of Texas Southwestern Medical Center. *Functional linkages between single-molecule integrin dynamics and edge protrusion in motile cells*
11.40 - 12:00 **Yu Lin**, Yale University. *sCMOS Camera-Specific Single Molecule Localization Algorithms*
12.00 - 13.00 Lunch
13.00 - 15.00 Poster Session (Coffee 14:30)
15.00 - 15.40 **Jean-Baptiste Masson**, Institut Pasteur, France**.** *Mapping the Interaction Landscapes of Biomolecules at Various Scales*
15.40 - 16.00 **Matthew Weitzman**, University of Delaware. *Single Molecule Dynamics of the RhoA GTPase Spatial Cycle*
16.00 - 16.20 **Quan Wang**, Stanford University. *Statistical Analysis of Single-Molecule Motion Enables Identification of Biomolecular Association States in Solution*
16.20 - 17.00 **James Werner**, Los Alamos National Laboratories. *TBD*
17:20 Bus leaves for Old Town
17:30 - 20:00 Dinner in Albuquerque Old Town
20:00 Bus leaves Old Town for Hotel