## Quantitative Biolmaging

## **Quantitative Biolmaging 2014 Program**

Rus leaves hotel

## Friday, January 10, 2014

08:30

00.00	Dus leaves note:
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

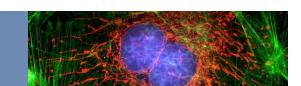
08:40	Bus leaves hotel	
09.00 - 09.40	Rainer Heintzmann, University of Jena, Germany. Image Reconstruction of Structured	
	Illumination Data	
09.40 -10.20	Sarah Veatch, University of Michigan. Using Pair Correlations to Probe Plasma Membrane	
	Heterogeneity in Chemically Fixed and Live Cells	
10.20 - 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		
10.00 10.00	• W O ( 111 ' O O O O O O O O O O O O O O O O O	

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



Conference

Conference website: <a href="http://www.quantitativebioimaging.com">http://www.quantitativebioimaging.com</a>
Email: <a href="mailto:inquiries@quantitativebioimaging.com">inquiries@quantitativebioimaging.com</a>