Nanoscale Biophysics Subgroup 2017 Symposium  
Saturday, February 17, 2018  
San Francisco, California  
12:30 PM- 6:00 PM  
Esplanade Room 160  
Subgroup Chair: Wesley Wong, Harvard University

12:30 PM Opening Remarks

12:35 PM  
Volkmar Heinrich, University of California, Davis  
Nano-to-Microscale Immunophysics: Sprawling Frontier and Foundation for Transformative Advances in Biomedicine

1:05 PM  
Ozgur Sahin, Columbia University  
Studying Nanoscale Mechanics of Single Molecules and Cells with Atomic Force Microscopy

1:35 PM Student/ Postdoc Talk  
Fidan Sumbul, Inserm & Aix-Marseille University  
Effect of cantilever response time on single molecule unfolding forces

1:50 PM Student/ Postdoc Talk  
Alex Diezmann, Stanford University  
A polar matrix microdomain constrains diffusion and regulates intracellular signaling

2:05 PM Student/ Postdoc Talk  
Melody Di Bona, Italian Institute of Technology and University of Genoa  
Probing chromatin organization by sorting of short sequence Fluorescence Correlation Spectroscopy

2:20 PM Student/ Postdoc Talk  
Jason Hon, Columbia University  
High Temporal- and Spatial-Resolution Studies of a Helix-to-Coil Transition that Controls the Switching Mechanism of a Riboswitch

2:35 PM Student/ Postdoc Talk  
Julene Madariaga-Marcos, National Center for Biotechnology (CNB), Spanish National Research Council (CSIC)  
Lateral Magnetic Tweezers to study DNA: protein interactions

2:50 PM Break

3:20 PM  
Jens Gundlach, University of Washington  
Enzyme Studies with Single-Molecule Picometer Resolution Nanopore Tweezers, SPRNT

3:50 PM  
Naomi Ginsberg, University of California, Berkeley  
Cathodoluminescence-activated Imaging of Nanoscale Dynamics by Resonance Energy Transfer

4:20 PM  
Hendrik Dietz, Technical University of Munich, Germany  
Precision Measurements of Biomolecular Structures and Interactions, Supported by DNA Origami
4:50 PM
Stephen Kowalczykowski, University of California, Davis
Watching Individual Molecules: Understanding Biology from Stochastic Behavior

5:20 PM Business Meeting

6:00 PM Subgroup Dinner
The Nanoscale Biophysics Subgroup is grateful for support from the following companies: