

**Molecular Biophysics Subgroup 2018 Symposium**  
**Saturday, February 17, 2018**  
**San Francisco, California**  
**10:30 AM- 3:00 PM**  
**South Level Two, Room 207/208**  
**Subgroup Chair: Philip Kukura, Oxford University, UK**

**Next Generation Measurement and its Application to Studying Biomolecular Interactions, Properties and Function**

10:30 AM Opening Remarks

10:40 AM

*Madhavi Krishnan, University of Zurich, Switzerland*

*Single-Molecule Electrometry: A New Tool for Structure, Conformation, and Interaction Studies on Single Biomolecules in Solution*

11:10 AM

*Wesley Wong, Harvard University*

*Exploring Nanoscale Biomechanics with Parallel Force Spectroscopy*

11:35 AM

*Alexandre Persat, Swiss Federal Institute of Technology, Lausanne, Switzerland*

*Bacterial Mechanosensing with Type IV Pili*

12:05 PM Break

12:15 PM Business Meeting

12:35 PM

*Ilya Finkelstein, University of Texas, Austin*

*Genome-scale Biophysical Profiling of CRISPR Interference*

1:00 PM

*Madoka Suzuki, Osaka University, Japan*

*Imaging of Heat Production and Heat-mediated Contraction in Single Muscle Cells*

1:30 PM

*Thomas Perkins, University of Colorado, Boulder*

*Improving AFM Reveals a Multitude of Hidden Dynamics in the Unfolding of a Membrane Protein*

2:00 PM

*Justin Benesch, University of Oxford, UK*

*Quantitative Native Mass Spectrometry: Weighing-up the Evolution of Protein Self-Assembly*

2:30 PM Closing Remarks

3:00 PM Adjournment

The Molecular Biophysics Subgroup is grateful for support from the following companies:

