Biophysical Society 66th Annual Meeting

Single-Molecule Forces, Manipulation, and Visualization Subgroup Symposium

Saturday February 19, 2022

San Francisco, California

Subgroup Co-Chairs: Laura Finzi, Emory University, USA, and Mark Williams, Northeastern University, USA

Symposium Time: 9:00 AM - 12:30 PM PST

Symposium Room: Moscone South 215/216

Subgroup Business Meeting: 12:00 Noon

9:05 AM Shixin Liu, Rockefeller University

Life Under Tension: New Insights into Biomolecular Interactions on DNA and Chromatin Enabled by Single-molecule Fluorescence and Force Microscopy

9:30 AM Micah McCauley, Northeastern University

Nucleosome Chaperones Facilitate both Nucleosome Assembly and Disassembly

9:55 AM Wesley Wong, Harvard University

Characterizing proteins with high-resolution, high-throughput force spectroscopy: From mechanotransduction to single-molecule proteomics

10:40 AM Ingrid Tessmer, Universität Würzburg, Germany

Resolving the Subtle Details of Human DNA Alkyltransferase Lesion Search and Repair Mechanism by Single-Molecule Studies

11:05 AM Zev Bryant, Stanford University

Dynamics and Mechanics of Nucleoprotein Machines

11:30 AM Shannon Yan, University of California, Berkeley

Following Out-of-Equilibrium Dynamics Across Scales: From Nascent Chain Folding to Membrane Remodeling

The Single-Molecule Forces, Manipulation, and Visualization Subgroup is grateful for support from the following sponsor: