Biophysical Society 67th Annual Meeting Single-Molecule Forces, Manipulation, and Visualization Subgroup Symposium Saturday February 18, 2023 San Diego, California

Subgroup Co-Chairs: Zev Bryant, Stanford University, USA and Wesley P. Wong, Harvard University, USA

Symposium Time: 1:30 PM - 5:30 PM PST

Symposium Room: 11AB

Subgroup Business Meeting: 3:30 PM

1:30 PM Opening Remarks

1:30 PM Ruben Gonzalez, Jr., Columbia University, USA

Realtime Observation of Substrate Translocation Dynamics in an ABC Transporter

1:52 PM Sabrina Leslie, University of British Columbia, Canada

Tether-Free, Single-Molecule Microscopy of DNA Interactions in Out-of-Equilibrium Conditions

2:14 PM Jie Yan, National University of Singapore, Singapore

The Mechanical Activation of Talin- and Vinculin-Mediated Rigidity Sensing of Extracellular Matrix

2:36 PM Wendy Thomas, University of Washington, USA

How Some Single Receptor-Ligand Bonds Lock Instantly into a Long-Lived Force-Resistant State

2:58 PM Pallav Kosuri, Salk Institute, USA Origami Movement Microscopy

3:20 PM Break

3:30 PM Subgroup Business Meeting

3:52 PM Fangyuan Ding, University of California, Irvine, USA Reveal Competitive Hybridization Dynamics at the Single-Molecule Level

4:14 PM Olga Dudko, University of California, San Diego, USA Universality vs. Specificity in Synaptic Transmission

4:36 PM Felix Ritort, University of Barcelona, Spain RNA Cold Misfolding

4:58 PM Eugene Kim, Max Planck Institute, Frankfurt, Germany

DNA Loop Extrusion Is a Conserved Mechanism among All Eukaryotic SMC Complexes

5:20 PM Closing Remarks

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

