

Biophysical Society 70th Annual Meeting
Single-Molecule Forces, Manipulation, and Visualization Subgroup Symposium
Saturday February 21, 2026
San Francisco, California

Subgroup Co-Chairs: Jinqing Huang, Hong Kong University of Science and Technology, China and Keith Mickolajczyk, Rutgers University, USA

Symposium Time: 8:30 AM - 12:30 PM EST

Symposium Room: Esplanade 153

Subgroup Business Meeting: 10:25 AM

8:30 AM Opening Remarks

8:40 AM Taekjip Ha, Boston Children's Hospital, USA

Multimodal Single Molecule Analysis of CTCF Dynamics and Regulation of Cohesin Barrier Function

9:15 AM Maria Kamenetska, Boston University, USA

Elucidating Kinetics and Thermodynamics of RNA-Ligand Interactions Using Force Spectroscopy and Optical Tweezer Single Molecule Approaches

9:35 AM Shixin Liu, The Rockefeller University, USA

Visualizing Mammalian Transcription Elongation on DNA and Chromatin

9:55 AM **Early Career Awardee Talk:** Gheorghe Chistol, Stanford University, USA

10:15 AM Break

10:25 AM Subgroup Business Meeting

10:35 AM Student/Postdoc Talk: Siyang Cheng, Rice University, USA

10:50 AM Sabrina Leslie, The University of British Columbia, Canada

Single-Particle and Single-Cell Microscopy Advance the Biophysical Characterization, Understanding, and Optimization of Next-Generation Genomic Medicines

11:10 AM Peng Zheng, Nanjing University, China

Computational Design of Ultastable Protein via Hydrogen Bond Maximization for Extreme Environment

11:30 AM Matthew Comstock, Michigan State University

High-Resolution Fluorescence Plus Force Spectroscopy of RNA from Riboswitches to Telomerase

11:50 AM Scott Blanchard, St. Jude Children's Research Hospital, USA

Parallel Stopped-Flow Interrogation of Diverse Biological Systems at the Single-Molecule Scale

12:25 PM Closing Remarks

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