

Biophysical Society 68th Annual Meeting
Single-Molecule Forces, Manipulation, and Visualization Subgroup Symposium
Saturday February 10, 2024
Philadelphia, Pennsylvania

Subgroup Co-Chairs: Nils Walter, University of Michigan, USA and Neva Caliskan, Helmholtz Institute for RNA-based Infection Research, Germany

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

Symposium Room: 202AB

Subgroup Business Meeting: 12:10 PM

8:30 AM Opening Remarks

8:40 AM Keynote Speaker: Carlos Bustamante, University of California, Berkeley, USA

FACT Promotes Efficient Pol II Transcription by Modulating the Topographic Features of the Nucleosomal Barrier

9:15 AM Dina Grohman, University of Regensburg, Germany

DNA Origami-Based Single-Molecule Force Spectroscopy Advances the Molecular Understanding of Transcription Initiation

9:35 AM Yuri Lyubchenko, University of Nebraska, USA

Imaging of the Amyloid Self-Assembly at Physiologically Relevant Conditions

9:55 AM Jie Xiao, Johns Hopkins University, USA

Enzyme Action Movies by Single-Molecule Tracking in Live Cells

10:15 AM Break

10:35 AM Sander Tans, AMOLF Living Matter, Netherlands

Ribosome-Driven Protein Assembly: From Across the Genome to Single Molecules

10:55 AM Jinyi Fei, University of Chicago, USA

Context-Dependent RNA Location to Nuclear Speckles

11:15 AM Mark Williams, Northeastern University, USA

DNA Condensation by HIV-1 Nucleocapsid Protein Regulates Capsid Uncoating and Viral Replication

11:35 AM Katarzyna Tych, University of Groningen, Netherlands

Single-Molecule Enzymology Using the Optical Tweezers

12:00 PM Closing Remarks

12:10 PM Subgroup Business Meeting

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