Biophysical Society 67th Annual Meeting

Macromolecular Machines and Assemblies Subgroup Symposium

Saturday February 18, 2023

San Diego, California

Subgroup Chair: Arne Gennerich, Albert Einstein College of Medicine, USA
Symposium Time: 1:30 PM - 5:30 PM PST
Subgroup Business Meeting: 5:20 PM
Symposium Room: 5AB

1:30 PM Opening Remarks

1:35 PM Shixin Liu, Rockefeller University, USA
Machines on Genes: A Single-Molecule Perspective

2:00 PM Ibrahim Cissé, Max Planck Institute of Immunology & Epigenetics, Germany
Super-Resolution Imaging of Transcription in Live Mammalian Cells

2:25 PM George Ghanim, MRC Laboratory of Molecular Biology, Cambridge, United Kingdom
Structural Basis of Human Telomerase Recruitment and Activation by Shelterin Proteins TPP1:POT1

2:45 PM Jeff Mindrebo, Scripps Research Institute, USA
Substrate-Mediated Activation Mechanism of Human LONP1

3:05 PM Break

3:20 PM Xinglei Liu, Albert Einstein College of Medicine, USA
The Regulatory Function of the AAA4 ATPase Domain of Cytoplasmic Dynein

3:40 PM Colleen Kelly, University of Vermont, USA
Thick Filament Dynamics: A Mechanism for Protein Replacement Within the Sarcomere

4:00 PM Katarzyna Tych, University of Groningen, Netherlands
Single-Molecule Characterization of an Osmoregulatory Transporter

4:25 PM Albert Weixlbaumer, Institute of Genetics and Molecular and Cellular Biology, National Centre for Scientific Research, France
Supramolecular Complexes Involved in the Coordination of Transcription and Translation

4:50 PM **Student/Postdoc Talk:** K. Maria Mills, University of Missouri, USA
Human XPD is an Active Helicase with Low Processivity and Overall Unwinding Rate

5:00 PM **Student/Postdoc Talk:** Jasmin Zarb, Johns Hopkins University, USA
Single-Molecule Studies Reveal that MutS'S Binding Characteristics are Mismatch Type and Context Dependent and Correlate with Mismatch Repair Efficiency in vivo

5:10 PM Closing Remarks

5:20 PM Subgroup Business Meeting

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