

## 2021 Biopolymers in vivo Symposium

Monday, February 22, 2021

10:00 AM – 2:00 PM USA Eastern (*held virtually*)

**Subgroup Chair:** Daniel Harries, Hebrew University of Jerusalem, Israel

**Program Co-Chairs:** Silvia Cavagnero, University of Wisconsin-Madison, USA and Bin Zhang, Massachusetts Institute of Technology, USA

### Presentations:

10:05 AM - Jennifer Lippincott-Schwartz, Howard Hughes Medical Institute, USA  
*Mitochondria Health and Deterioration under Nutrient Stress Depend on Lipid Trafficking Pathways set up and Controlled by Vacuolar Phase-separated, Sterol-rich Microdomain*

10:45 AM - Grant Jensen, California Institute of Technology, USA  
*Imaging Biopolymers in vivo directly with Cryo-ET: Trim5 Nets and IRE-1 Helices*

11:20 AM - Lucia Strader, Duke University, USA  
*Condensation of a Plant Transcription Factor Driven by an Oligomerization Domain and IDR*

11:45 AM - Junior Investigator Awardee Presentation: Stephen Fried, Johns Hopkins University  
*Non-Refoldability is Pervasive Across the E. Coli Proteome*

12:20 PM - Ivan Volkov, Uppsala University  
*Live-Cell Single-Molecule Tracking of the Translation Machinery*

12:40 PM - Iva Tolic, Ruder Boskovic Institute, Croatia  
*Optogenetic Control of Spindle Microtubule Crosslinkers Reveals that Bridging Fibers Promote Chromosome Alignment by Overlap Length-Dependent Forces*

1:05 PM - Jose Onuchic, Rice University, USA  
*Energy Landscapes, Order and Disorder, and Protein Sequence Coevolution: From Proteins to Chromosome Structure*

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