

Biophysical Society 69<sup>th</sup> Annual Meeting  
Biopolymers in Vivo Subgroup Symposium  
Saturday February 15, 2025  
Los Angeles, California

**Subgroup Chair:** Garegin Papoian, University of Maryland, USA

**Program Co-Chairs:** Loren Hough, University of Colorado, Boulder, USA and Keren Lasker, Scripps Research Institute, USA

**Symposium Time:** 8:30AM-12:30 PM PST

**Subgroup Business Meeting:** 12:10 PM PST

**Symposium Room:** 408A

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8:30 AM Opening Remarks

8:32 AM Bin Zhang, MIT, USA

*Understanding IDP Phase Behaviors with AI and Polymer Physics*

8:52 AM Heather Meyer, Syracuse University, USA

*Intrinsically Disordered Proteins as Thermosensors in Plants*

9:12 AM Maxim Prigozhin, Harvard University, USA

*Time-Resolved Cryo-Vitrification Reveals the Dynamics of Biomolecular Condensates*

9:32 AM Fatema Bhinderwala, University of Pittsburgh, USA

*Exploiting 19F NMR for Measuring Small GTPase Activity in Cells*

9:52 AM Janet Kumita, University of Cambridge, UK

*Designing Engineered Biomolecular Condensates to Facilitate Protein Degradation*

10:12 AM Break

10:25 AM Samuel Holtzen, Caltech, USA

*Accelerating Cellular Barcoding with Deep Learning*

10:45 AM Massimiliano Bonomi, Institut Pasteur, France

*Integrative Structural Biology in the Era of Artificial Intelligence*

11:05 AM Loren Hough, University of Colorado, Boulder, USA

*Coiled Coil Proteins as Drivers of Protein Phase Separation*

11:25 AM George Lu, Rice University, USA

*Understanding the Assembly of Gas-Filled Microbial Organelle*

11:45 AM BIV Young Faculty Award Talk: Jingyi Fei, University of Chicago

*Context-dependent RNA Localization to Nuclear Speckles*

12:10 PM Business Meeting

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