

Biophysical Society 69<sup>th</sup> Annual Meeting  
Motility & Cytoskeleton Subgroup Symposium  
Saturday February 15, 2025  
Los Angeles, California

**Subgroup Co-Chairs:** Sophie Dumont, University of California, San Francisco, USA and Radhika Subramanian, Massachusetts General Hospital, USA

**Symposium Time:** 1:30 PM - 5:30 PM PST

**Symposium Room:** 515A

**Subgroup Business Meeting:** 3:35 PM PST

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1:30 PM James Spudich, Stanford University School of Medicine, USA

*From Fundamental Biochemistry and Biophysics to Mechanisms to Unique Medicines*

2:00 PM Christina Huechen, University of California, San Diego, USA

*Gliding and Invasion of Toxoplasma gondii*

2:15 PM Benjamin Larson, Rensselaer Polytechnic Institute, USA

*Principles of Cellular Behavior: Integrating Cellular Structure, Dynamics, and Decision Making in a Unicellular Walker*

2:30 PM Sarah Heissler, Ohio State College of Medicine, USA

*Mechanisms of Nonmuscle Myosin-2*

2:45 PM Spotlight Awardee Talk: Dana Nikki Reinemann, University of Mississippi, USA

3:01 PM Flash Talks: Gopal Niraula, Crystal Noell, Leila Farhadi,

3:10 PM Selected Talk from Poster: Jing Xu

3:20 PM Break

3:35 Business Meeting

3:45 PM Ahmet Yildiz, University of California, Berkeley, USA

*Regulation of Microtubule Motors by MAPs*

4:00 PM Early Career Awarde Talk: Charlotte Aumeier, University of Geneva, Switzerland

*The Dynamic Microtubule Lattice*

4:15 PM Peter Bieling, Max Planck Institute of Molecular Physiology, Germany

*Controlling Actin Dynamics at Filament Ends - Structural and Biochemical Insights*

4:30 PM Kyoko Chiba, Frontier Research Institute for Interdisciplinary Sciences (FRIS), Tohoku University, Japan

*Biochemical and Biophysical Analysis of ALS-Associated KIF5A Mutant*

4:45 PM Vaishnavi Ananthanarayanan, EMBL Australia Node for Single Molecule Science, Australia

*Unravelling How Motors and Adaptor Proteins Work Together to Mediate Cargo Transport in Cells*

5:00 PM KEYNOTE TALK: Tarun Kapoor, The Rockefeller University, USA

*Regulating When and Where a Microtubule Assembles: Put a  $\gamma$ -tubulin Ring On It*

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