

Biophysical Society 67<sup>th</sup> Annual Meeting  
Motility & Cytoskeleton Subgroup Symposium  
Saturday February 18, 2023  
San Diego, California

**Subgroup Co-Chairs:** Ken'ya Furuta, National Institute of Information and Communication Technology, Japan, and Marija Zanic, Vanderbilt University, USA

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

**Symposium Room:** 6A

**Subgroup Business Meeting:** 1:30 PM

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1:30 PM Opening Remarks and Subgroup Business Meeting

1:40 PM Erwin Peterman, Vrije University, The Netherlands

*A Single-Molecule View on Intraflagellar Transport in C. elegans Chemotensory Cilia*

2:00 PM Christina Hueschen, Stanford University, USA

*Actin Self-Organization in Gliding Parasitic Cells*

2:20 PM Wonmuk Hwang, Texas A&M University, USA

*Position-Dependent Behavior of an Unbound Kinesin Head near the Microtubule Surface*

2:40 PM Naomi Courtemanche, University of Minnesota, USA

*Balancing Act: Profilin's Competing Roles in Formin-Mediated Actin Polymerization*

3:00 PM Mitsuhiro Iwaki, National Institute of Information and Communications Technology, Japan

*Dynamic Coordination of the Lever-Arm Swing of Myosin II in DNA Origami-Based Thick Filament*

3:20 PM Break

3:50 PM Emmanuel Derivery, MRC Laboratory of Molecular Biology, United Kingdom

*Synthetic Reconstitution of Cortical Polarity to Study Cytoskeleton Symmetry Breaking*

4:10 PM Morgan DeSantis, University of Michigan, USA

*Regulation of Cytoplasmic Dynein-1 during Cell Migration*

4:30 PM Flash Talks from: Ana Antonovic, Irene Pertici, Madhura Duttagupta, Ana Duarte, and Yuan Gao

4:50 PM **Early Career Awardee:** Scott Forth, Rensselaer Polytechnic Institute, USA

*Deciphering the Mechanics of Microtubule Bundles in Mitosis*

5:30 PM Closing Remarks

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