

**Motility & Cytoskeleton Subgroup
2020 Symposium**

San Diego, California

San Diego Convention Center Rooms: 24 ABC

Symposium Time: 1:30 - 5:20 PM *and* 8:00 – 9:30 PM

Subgroup Co-Chairs: Michael Previs, University of Vermont,
and Ahmet Yildiz, University of California, Berkeley

1:35 PM Andrew Carter, MRC Laboratory of Molecular Biology, Cambridge, UK

Dynein regulation

1:55 PM Matthew Marzo, Colorado State University

Pacl/Lis1 Promotes Cytoplasmic Dynein Activity by Stabilizing its Open Conformation

2:05 PM Sakthivel Sadayappan, University of Cincinnati, College of Medicine

Cardiac Myosin Binding Protein-C Regulates Cardiac Contractility

2:25 PM Prince Tiwari, University of Massachusetts Medical School

Flexibility of Myosin II in Solution

2:35 PM Ekaterina L. Grishchuk, University of Pennsylvania, Perelman School of Medicine

Ultrafast Force-Clamp Studies of the Diffusing Microtubule-Binding Proteins

2:55 PM Rui Zhang, Washington University in St. Louis

High-Resolution Cryo-EM Structure of the Decorated Ciliary Doublet Microtubule

3:15 PM Subgroup Business Meeting

3:40 PM Jonathon Howard, Yale University

Roles of Vertical and Horizontal Forces on the Processivity of Motors

4:00 PM Serapion (Ionas) Pyrpasopoulos, University of Pennsylvania Muscle Institute

Role of Off-axis Force in Motor Regulation

4:10 PM Radhika Subramanian, Massachusetts General Hospital

Imaging Microtubule Arrays Using AFM

4:20 PM Benjamin L. Prosser, University of Pennsylvania, Perelman School of Medicine

The Microtubule Network in Cardiac Hypertrophy and Heart Failure

4:40 PM Alexander Dunn, Stanford University

A Molecular Mechanism for Symmetry Breaking at Cell-Cell Adhesion Complexes

5:00 PM Darius Koester, Warwick University, UK

Bending of Actin Filaments into Rings by IQGAP Family of Proteins

5:10 PM Jialong Jiang, California Institute of Technology

Motor-propelled Velocity Scaling in Active Microtubule Networks

5:40 - 7:40 PM Subgroup Networking Social at *Smoking Gun San Diego*, 555 Market St.

8:00 PM Antonina Roll-Mecak, NIH, National Institute of Neurological Disorders and Stroke

Microtubule Dynamics: Not Only at the Tips

8:20 PM Richard McKenney, University of California, Davis

Junior Faculty Award Presentation & Lecture

8:45 PM Keynote Speaker: David Thomas, University of Minnesota

Spectroscopic Probes of Muscle Proteins: Mechanistic Insights and Therapeutic Discovery

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