

Molecular Biophysics Subgroup 2017 Symposium
Saturday, February 11, 2017
New Orleans, Louisiana
10:30 AM- 3:00 PM
Great Hall B

Yann Chemla, University of Illinois, Urbana Champaign, Subgroup Chair

10:30 AM **Opening Remarks**

10:40 AM

Controllable Molecular Motors Engineered from Myosin and RNA
Zev Bryant, Stanford University

11:10 AM

Dynein's direction-dependent microtubule-binding strength is controlled via a tension-induced sliding of dynein's stalk helices mediated by the coiled-coil strut
Lu Rao, Albert Einstein College of Medicine

11:35 AM

Single-Molecule Sorting Of The Human DNA Repair Enzymes
Maria Spies, University of Iowa

12:05 PM **Coffee Break and Business Meeting**

12:35 PM

High throughput simulations reveal how sequence and methylation control DNA looping and self-association
Jejoong Yoo, University of Illinois, Urbana-Champaign

1:00 PM

Single Molecules in Focus: From RNA Splicing to Silencing
Nils Walter, University of Michigan

1:30 PM

RNA remodeling activity reveals RNP assembly mechanism
Sua Myong, Johns Hopkins University

2:00 PM

Quantitative characterization of the building blocks of RNA tertiary structure
William Greenleaf, Stanford University

2:30 PM **Closing Remarks**