

Biophysical Society 69th Annual Meeting
Multiscale Genome Organization Subgroup Symposium
Saturday, February 15, 2025
Los Angeles, California

Subgroup Co-Chairs: Rosana Colleparado-Guevara, Cambridge University, UK and Michael Poirier, Ohio State University, USA

Symposium Chair: Davit Potoyan, Iowa State University, USA

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

Symposium Room: 511ABC

Subgroup Business Meeting: 5:15 PM

1:00 PM Opening Remarks

1:35 PM Michael Poirier, Ohio State University, USA

Linker Histone H1.0 Loads onto Nucleosomes Through Multiple Pathways that are Facilitated by Histone Chaperones

2:05 PM Marcus Woodworth, University of Pennsylvania, USA

Visualizing Chromatin States in Native Contexts Using Expansion Microscopy

2:35 PM Rob McGinty, University of North Carolina at Chapel Hill, USA

Structural Mechanisms of Nucleosome Lysine Demethylation

3:05 PM Paul Meneses: Johns Hopkins University, USA

Single Molecule Measurements on Native Chromatin

3:15 PM Break

3:30 PM Serena Sanulli, Stanford University, USA

Regulation and Function of HP1 Compartments

4:00 PM Shoji Takada, Kyoto University, Japan

Multiscale Modeling to Study the Interplay of Genome Organization and Transcription Regulation

4:30 PM Maria Aristizabal, Queen's University, Canada

Understanding the Impact of Cancer Histone Mutations from Atoms to Biological Pathways

5:00 PM Jan Huertas, University of Cambridge, UK

Experimentally Consistent Multiscale Simulations Reveal the Role of Histone Tails in Chromatin Condensates

5:10 PM Closing Remarks

5:15 PM Business Meeting

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