



7TH ANNUAL

Chromatin and Epigenetics Symposium

March 7, 2024

Keynote Speaker

Emily Bernstein, PhD

Dr. Bernstein is a Professor of Oncological Sciences and Dermatology at the Icahn School of Medicine at Mount Sinai in New York City. She performed her thesis research in the laboratory of Dr. Gregory Hannon at Cold Spring Harbor Laboratory with a PhD from Stony Brook University. Dr. Bernstein completed her postdoctoral studies with Dr. David Allis at The Rockefeller University. She has made important scientific contributions to various areas of biology during her career, including understanding the mechanisms of RNA interference and chromatin regulation, and in her own laboratory, how the latter impacts on disease. Her laboratory studies epigenetic mechanisms underlying cellular reprogramming in development and cancer, with a focus on malignant melanoma and neuroblastoma. She has held continuous funding from the NCI for her research program, serves as a permanent member of the Cancer Genetics study section of the NIH, and participates in grant review committees for multiple foundations. She is also co-leader of the Cancer Mechanisms Program of the NCI-designated Tisch Cancer Institute at Mount Sinai.

Jointly sponsored by C3, IBGS, OoR, NIEHS, Biochemistry & Biophysics, and UNC Lineberger Comprehensive Cancer Center.

Moderated by Dr. Brian Strahl.

Agenda

12:00 – 1:00 pm Roper Hall Meeting Room 1101	Emily Bernstein, PhD Professor of Oncological Sciences and Dermatology at the Icahn School of Medicine at Mount Sinai in New York City Talk Title: A Journey of a Histone Variant: From Mechanisms to Disease.
1:00 – 1:15 pm	Kanishk Jain, PhD (Strahl) <i>Understanding the role of PHRF1 in transcription and DNA damage response regulation.</i>
1:15 – 1:30 pm	Christopher Travis (Waters) <i>Evaluation of the Differential Binding Preferences of Histone Trimethyllysine Reader Proteins.</i>
1:30 – 1:45 pm	Fariha Rahman (Legant) Multiplexed super-resolution fluorescence microscopy of the human nuclear landscape.
1:45– 2:00 pm	Krystal Orlando, PhD (Wade) <i>Cooperative binding of pioneer transcription factor and co-factors depends on the transactivation domain for remodeling the enhancer landscape.</i>
2:00 – 2:20 pm	Break
2:20 – 2:35 pm	Margarita Dzama, PhD (Raab) <i>Deciphering the mechanism of the menin-MLL complex dependency in HCC.</i>
2:35 – 2:50 pm	Jackson Hoffman, PhD (Archer) BRG1 establishes the neuroectodermal chromatin landscape to restrict dorsal cell fates.
2:50 – 3:05 pm	Natalie Rittenhouse, PhD (Downen) <i>Establishing a complete cohesin interactome to uncover regulators of transcription.</i>
3:05 – 3:20 pm	Xiukun Wang, PhD (Hu) <i>Unbiased CRISPR Screens Identified Epigenetic Regulators for Primordial Germ Cell Specification.</i>
3:20–3:35 pm	Cat Lewis, PhD (Browne) <i>The Role of VPR in The Epigenetic Regulation of HIV-1 LATENCY.</i>
3:35– 3:50 pm	Melanie Uguen, PhD (Frye) <i>First covalent small-molecule chemical probes for the Triple Tudor domain of SETDB1.</i>
3:50– 4:05 pm	Merril Frone, PhD (Pattenden) <i>Development of a platform for therapeutic target discovery for alternative lengthening of telomeres (ALT) cancers</i>
4:15 – 6:30 pm	Poster session and reception – Roper Hall Lobby (Ground Floor)