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Robert H. Lurie Comprehensive Cancer Center of Northwestern University

Lurie Cancer Center's Basic Research Seminar Series

TET-Mediated Epigenetic Regulation in Cancer and Aging

Tuesday, May 14, 2024

11:00 a.m.- 12:00 p.m. CT

Baldwin Auditorium, 1st Floor

Robert H. Lurie Medical Research Center
303 E. Superior St., Chicago, IL

Host: Yan Liu

Dr. Huang's group is interested in investigating the epigenetic regulatory mechanisms that support normal development, and how epigenetic abnormalities stemming from genetic defects or environmental stressors contribute to pathological conditions, including aging and cancer. We use epigenomics, mouse genetics, chemogenetics, and optogenetics to characterize the regulation of DNA methylation and demethylation, transcriptional reprogramming, enhancer-promoter looping, and heterochromatin maintenance during normal embryonic development, aging, and malignant transformation. Furthermore, Dr. Huang's group has developed a suite of molecular tools to modulate epigenetic regulators and signaling molecules in a tunable manner, thereby enabling the fine-tuning of immune cell functions to advance precision immunotherapy.



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