

# Johns Hopkins University

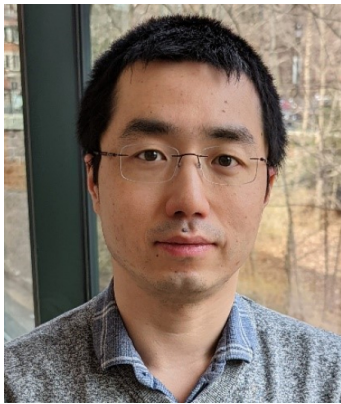
## Department of Biology Seminar Series

Thursdays, 4:00pm

For more information go to: <https://bio.jhu.edu/events>

Zoom link: <https://zoom.us/j/97925356454?pwd=bjNuTlY1dU9BcXcrRFdleis2TVNadz09>

May 4th, 2023 - Mudd 100



**Yanxiang Deng**

Penn Epigenetics Institute

University of Pennsylvania

Host: Xin Chen

## “Advancing Biomedical Research with Spatial Omics Technologies”

In this talk, I will begin with discussing the emergence of a whole new field – spatial omics – and then present a new technology platform called DBiT-seq – microfluidic Deterministic Barcoding in Tissue for spatial multi-omics sequencing. It demonstrated co-mapping of whole transcriptome and a large panel of proteins with high spatial resolution. I will also show the latest progress of DBiT as a platform technology to enable, for the first time, spatial profiling of epigenome (histone modifications and chromatin accessibility) at cellular level. Integration with single-cell data allows for accurate cell type annotation in relation to spatial location in tissue. The rise of NGS-based spatial omics is poised to fuel the next wave of biomedical innovation.