



中国科学院生物物理研究所

贝时璋讲座

CRISPR screens for precision cancer medicine

报告人：刘小乐 (Xiaole Shirley Liu) 教授

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主持人：陈润生 院士

报告人简介

X. Shirley Liu, a member of the mod/ENCODE consortia (NHGRI) and Information Technology for Cancer Research initiative (NCI), an associate member at the Broad Institute, and the co-director of the Center for Functional Cancer Epigenetics at the Dana-Farber Cancer Institute, has long-standing interest and track record (H-index of 67) in big data integration and bias correction in genomics, has published over 40 papers in journal of *Nature*, *Science*, or *Cell* series.



Prof. Liu's research focus is by integrating data from ChIP-seq, RIP-seq, DNase-seq, MNase-seq, RNA-seq, and other high throughput -omics data to model the specificity and function of transcription factors, chromatin regulators and lncRNAs in tumor development, progression, drug response and resistance. Recently, her lab has expanded computational expertise in the design and analysis of genome-wide CRISPR screens, as well as inference on tumor purity and cancer immunity.