Cell of interest

Cells Immobilized and permeabilized

ConA
ConA ConA

Target-specific antibody

pAG-MNase

+ CalCl$_2$ @4ºC

Target-DNA complex released

DNA purification and library preparation

Sequencing and data analysis

CUT&RUN- sequencing workflow

H3K4me3

CUT&RUN   RPM   3.4 million total reads, 500K cells

ChIP-seq   RPM   38 million total reads, 20 million cells

LIN28A   DHDDS   HMGN2   RPS6KA1

H3K27me3

CUT&RUN   RPM   3.8 million total reads, 500K cells

ChIP-seq   RPM   42 million total reads, 20 million cells

SRC   BCLAP   LINC00489   CRNNBL1   VSTM2L

CUT&RUN offers distinct advantages vs. ChIP-seq

✓ Low cell input requirements
✓ Low background signal, high-quality data
✓ Labor and cost-effective workflow

New Service: Genome-wide histone PTM profiling by CUT&RUN- Sequencing

We now provide end-to-end CUT&RUN (Cleavage Under Target and Release Using Nuclease) service, from cells through data.

To find out more about this service, contact us by email at *garpcore@bcm.edu*.