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Epigenetics, chromatin structure and genome organization

Genetic approach to study chromatin structure

- Lessons from yeast genetics
- Learn from vernalization in plant

Genome-wide approaches to studying chromatin modifications

- Learn to do ChIP-sequencing
- What is CUT&RUN sequencing?

Study chromatin structure

- MNase-seq
- DNase-seq
- ATAC-seq

Mapping 3D chromosome architecture

- Imaging approaches: DNA-FISH
- Chromosome conformation capture (3C) and Hi-C