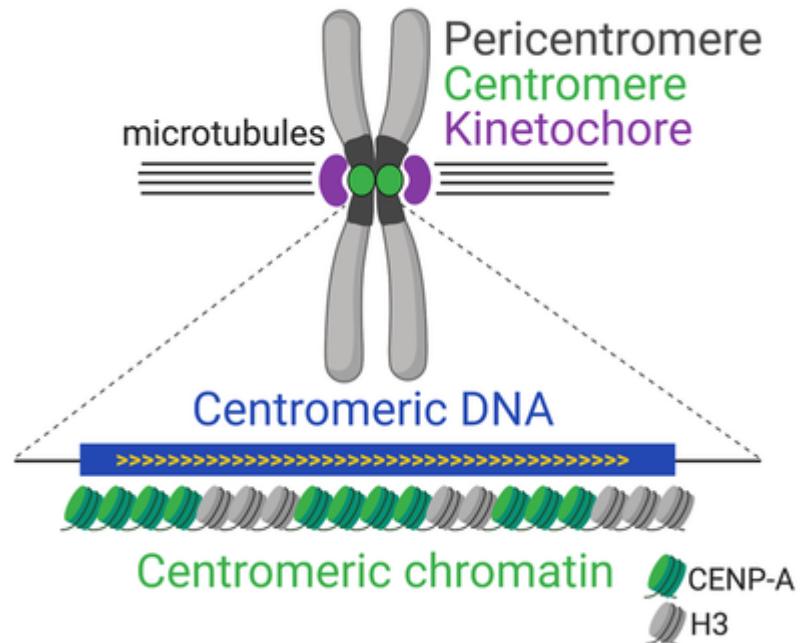
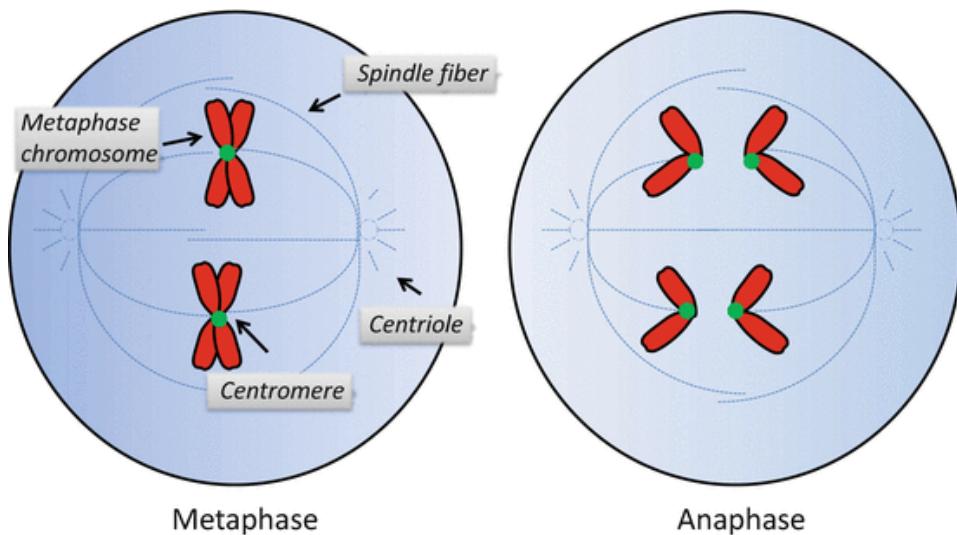
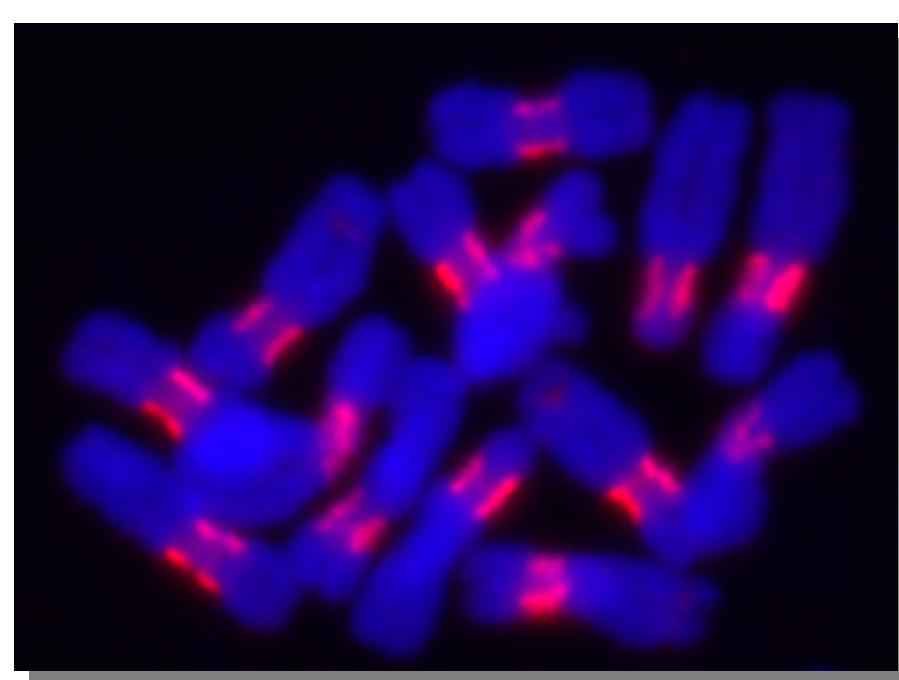
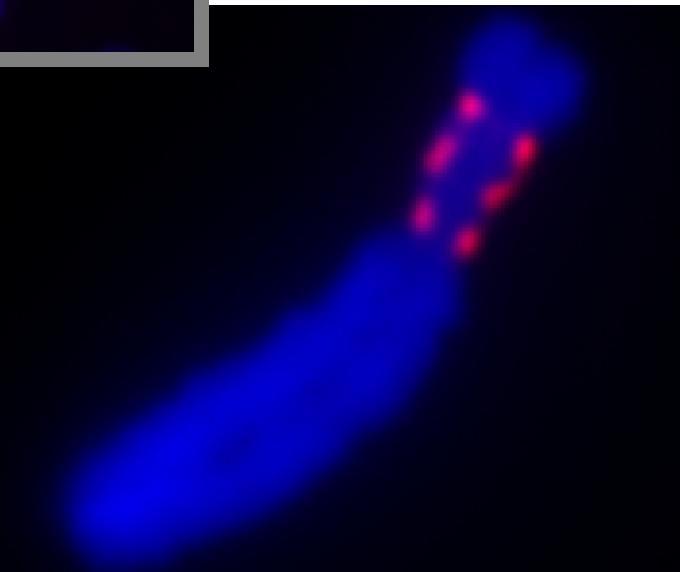


# Identification of sequences associated with centromeric chromatin



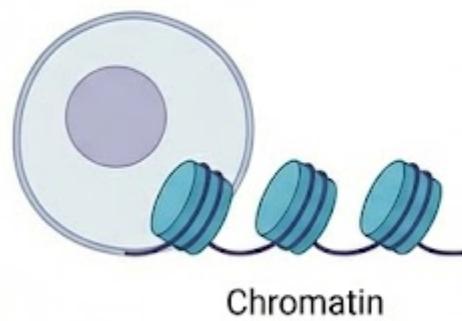


*P. sativum*  
CENH3 – centromeric histone



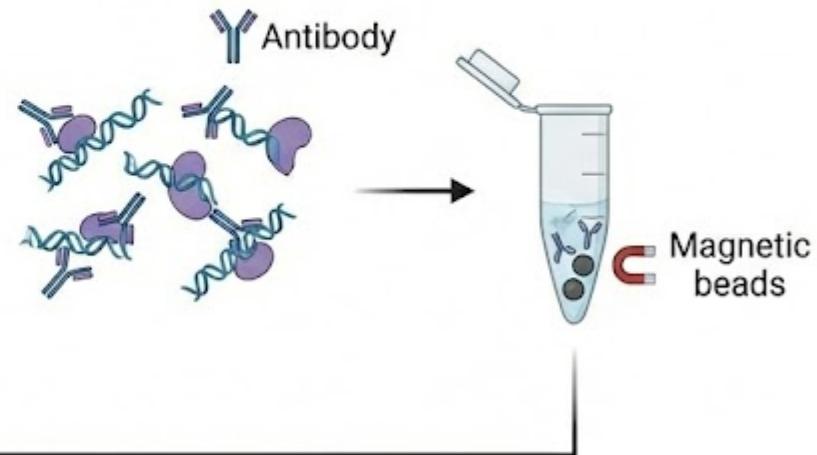
*H. sapiens*  
CENP-A centromeric histone

## 1. Cross-linking & Fragmentation



DNA-protein complexes

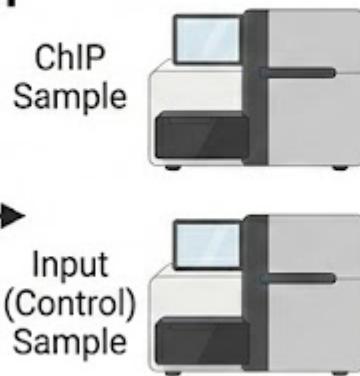
## 2. Immunoprecipitation (ChIP)



Magnetic beads

## 3. DNA Purification

Release and pure DNA fragments



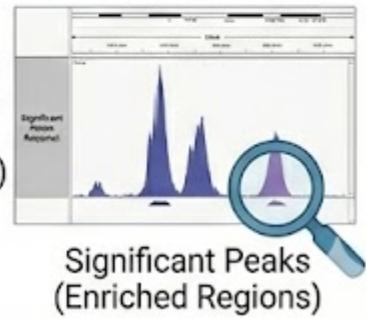
Aligned to Reference Genome  
ChIP Reads



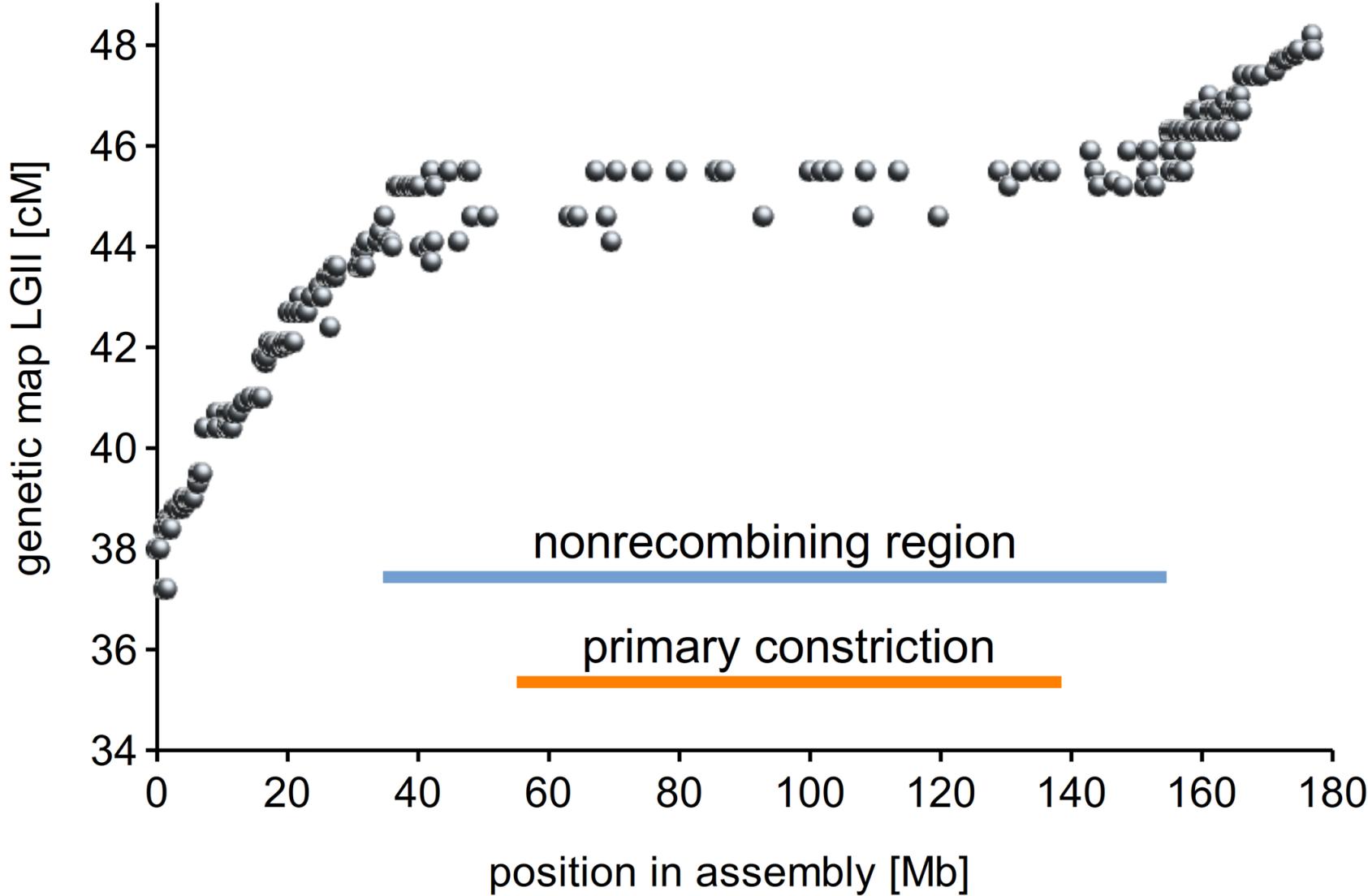
Input  
Reads

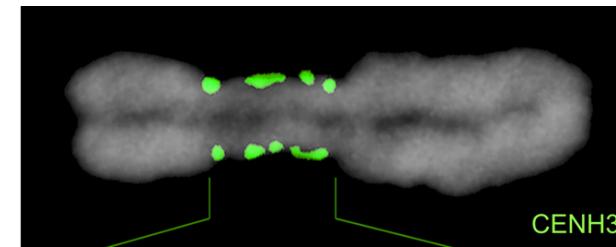
## 4. Sequencing & Peak Calling

Normalization & Subtraction  
(ChIP vs. Input)

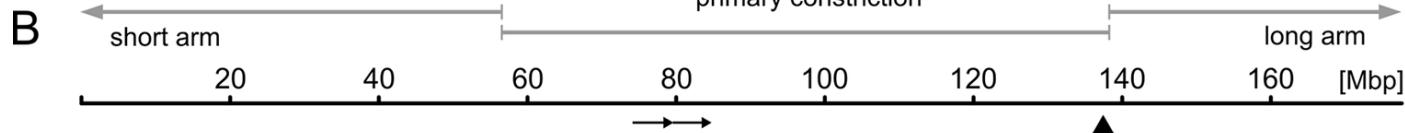


Significant Peaks (Enriched Regions)

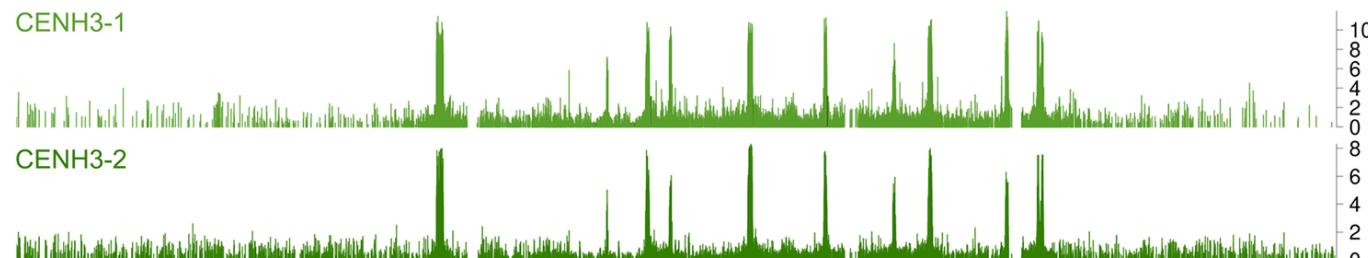




primary constriction

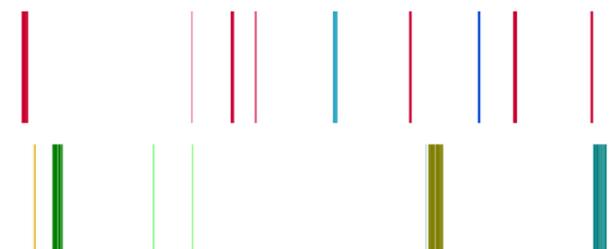


C CENH3-1



## D Satellites

- CENH3-associated



satDNA

- 

E

