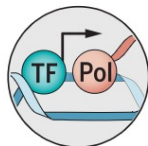


Genotype

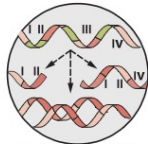


Epigenotype

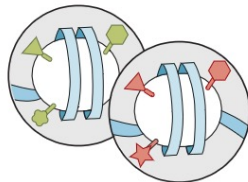


Transcription factor binding

TF binding interacts with DNA methylation and chromatin accessibility

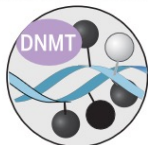


Transcription and RNA maturation



Histone modifications

Modifications can be active marks (e.g., H3K4me3 in green) or repressive marks (e.g., H2K27me3 in red)



DNA modifications

● C ● 5mC
● 5hmC / 5fC / 5caC



Chromosome organization

Higher-order chromatin organization into LADs and TADs

Phenotypes

