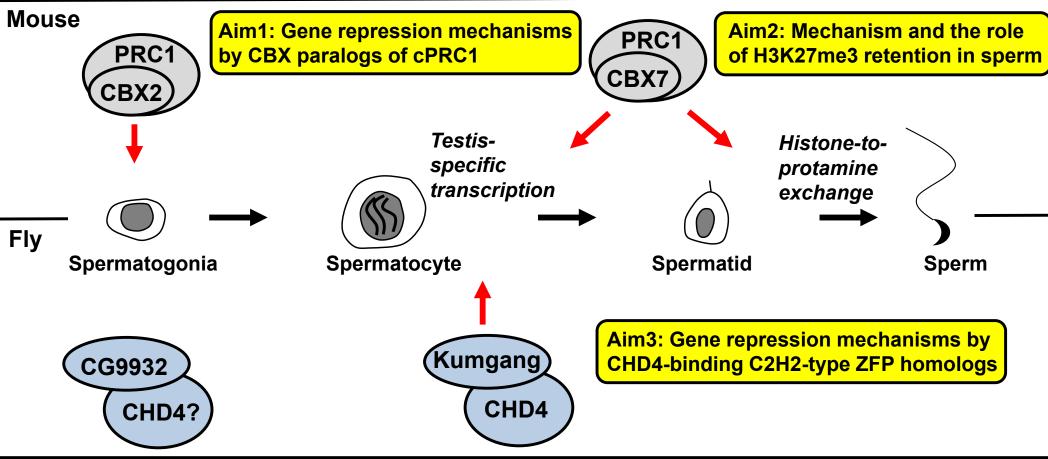
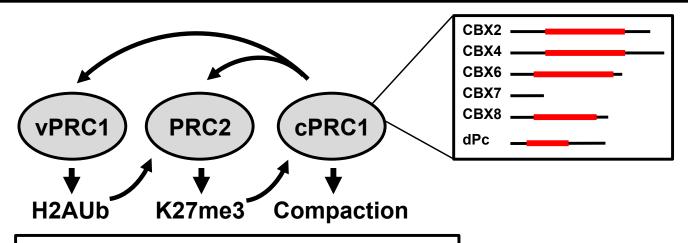


How to block aberrant transcription?

Choosing right promoters by cell type-specific chromatin modifying complexes



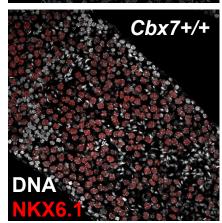
Aim1. Gene repression mechanism by CBX paralogs of cPRC1



Cbx7+/+

DNA
NKX6.1

- Q) Determinants of gene repression?
- Q) Why CBX7 but not other CBX?



Wild type

Cbx7-/-





vPRC1-cUbMut

Cbx7-/-; rescue-CBX7-dTAG

Cbx7-/-; rescue-CBX2-dTAG

Measure genome-wide: vPRC1, PRC2, cPRC1, H2AUb, H3K27me, Compaction

Analyze cellular phenotypes

