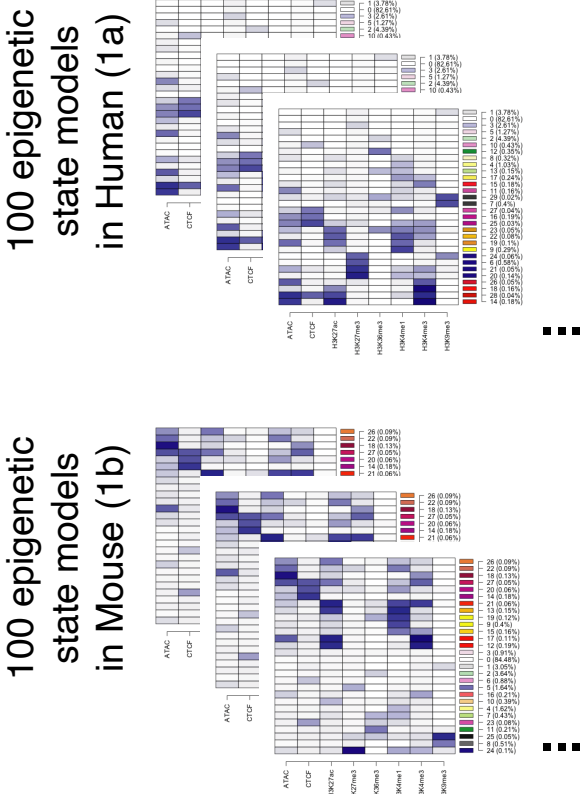
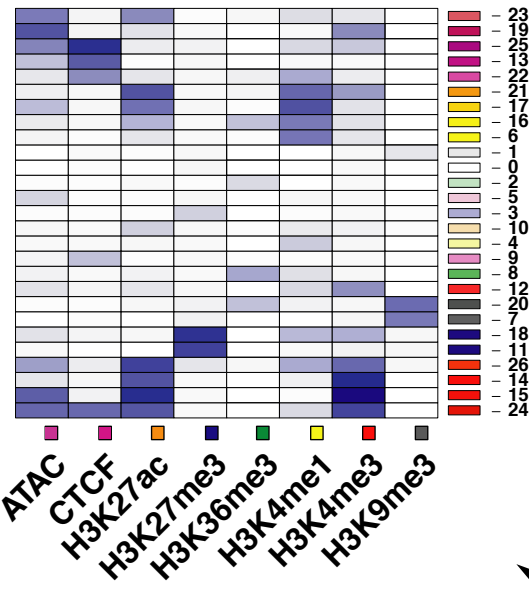


A The epigenetic models extracted from 100 randomly selected genomic regions



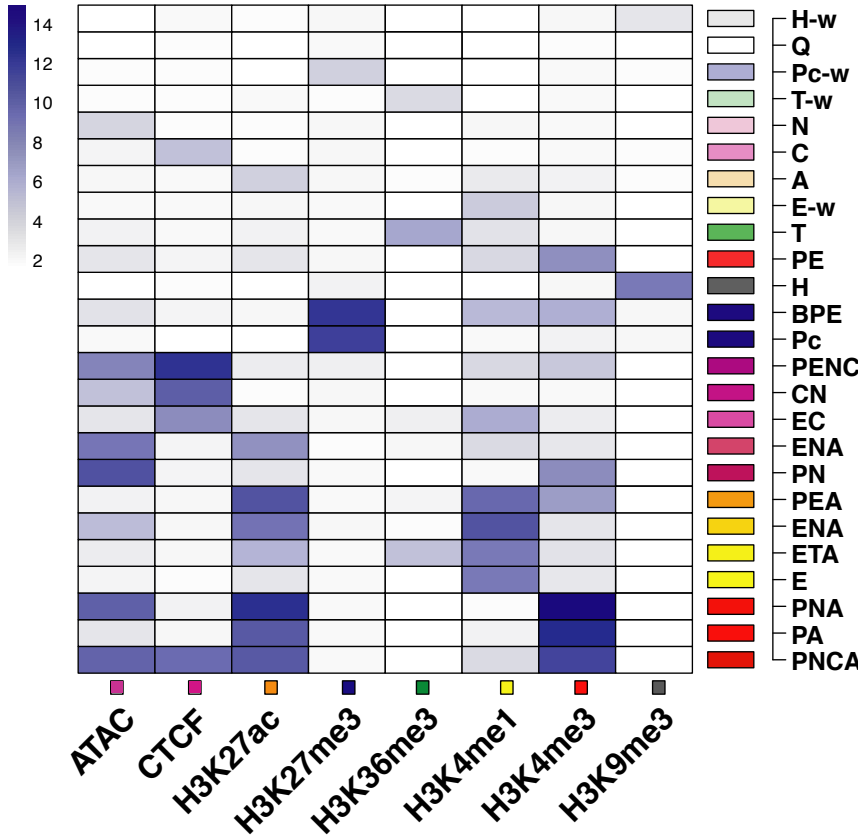
B 27 reproducible epigenetic states in both species

Filter out irreproducible states



Get the final epigenetic state model

D 25 epigenetic states jointly extracted from human and mouse



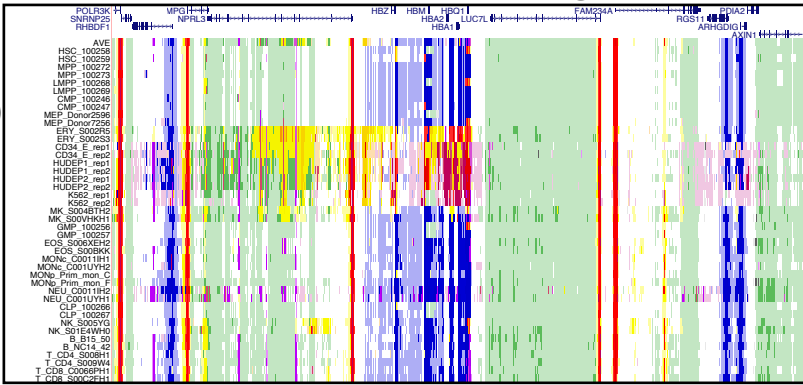
C

Human genome segmentation with prior information (2a)

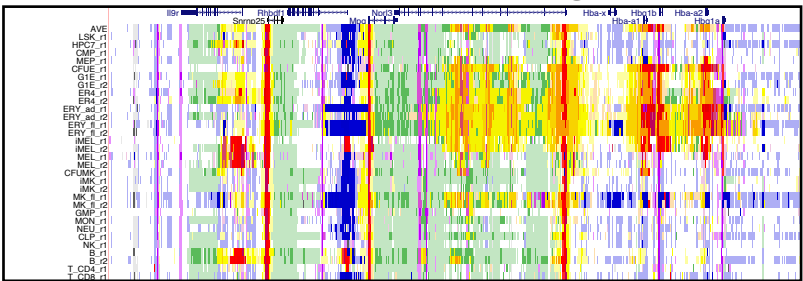
Update epigenetic state model (2a)

Mouse genome segmentation with prior information (2b)
Update epigenetic state model

Human hematopoietic epigenomes



Mouse hematopoietic epigenomes



E Assigning the 25 epigenetic states to the human and mouse epigenomes

- P = Promoter like
- E = Enhancer like
- B = Bivalent
- Pc = Polycomb
- H = Heterochromatin
- N = Nuclease accessible
- T = Transcribed
- Q = Quiescent
- w = weaker signal