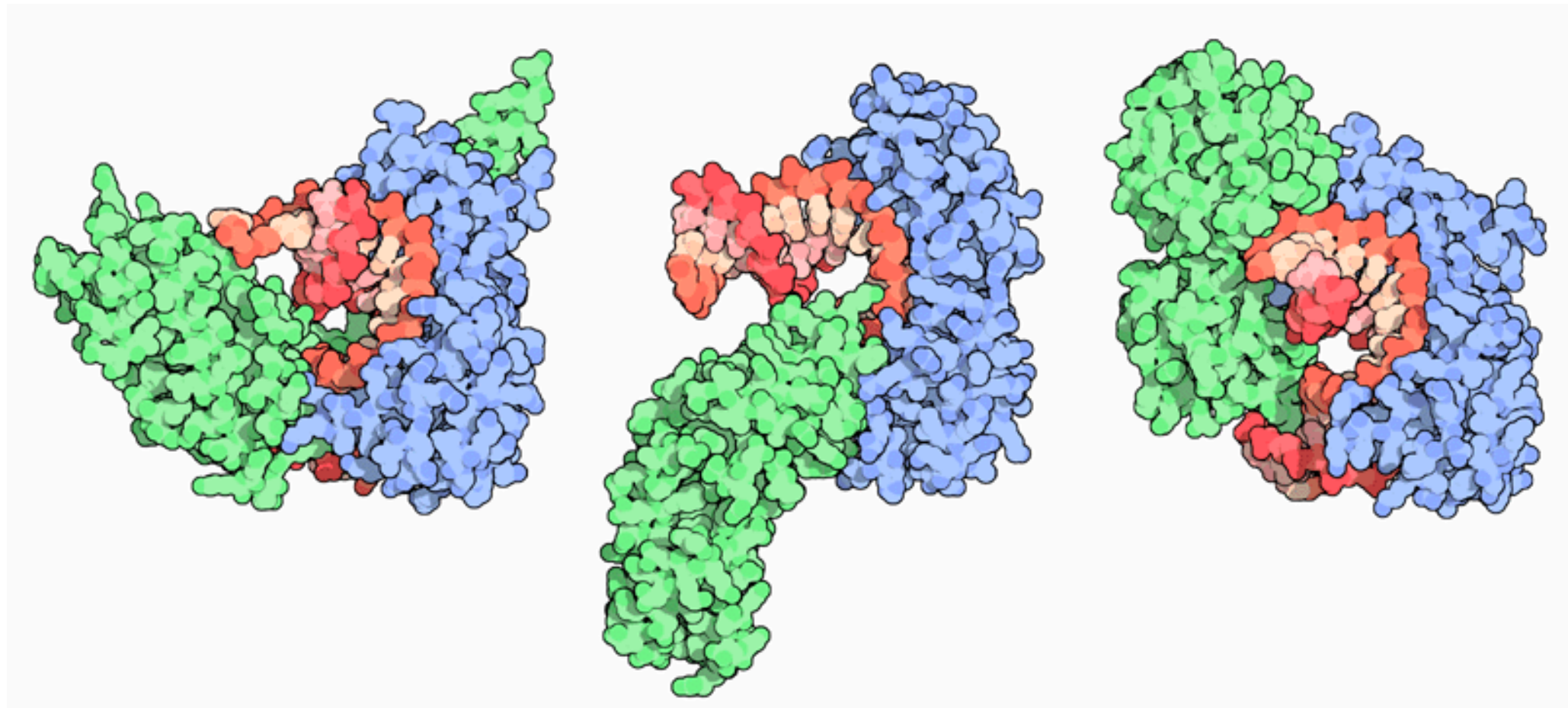


Hands on introduction to ChIP-seq and ATAC-seq analysis

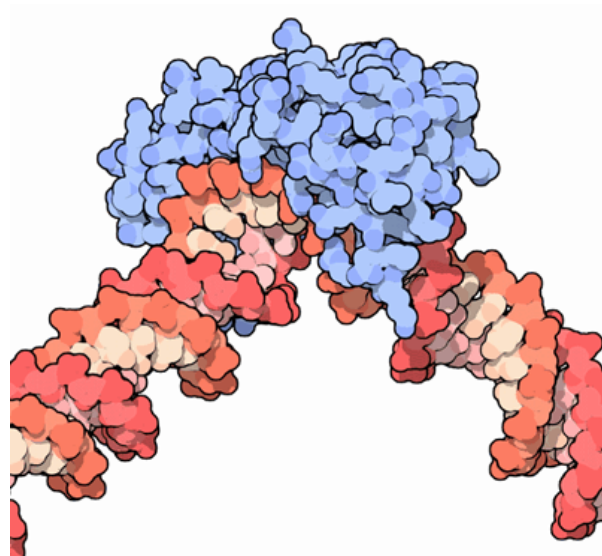
What we will see today:

1. Intro, downloading the data
2. Coffee break 10h30
3. Quality-checking and mapping
4. Lunch Break [12h30/13h30]
5. Peak calling and visualisation
6. Motif analysis
7. Coffee break 15h
8. Question and recap

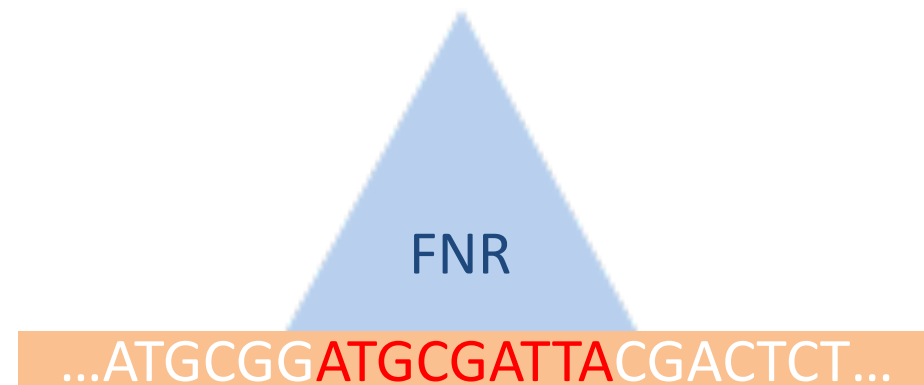


Transcription factors bound to short pieces of DNA: TFIIB, TFIIA, and NC2. credit.D.Goodsell

How do we access biological DNA-accessibility and DNA-binding insights?

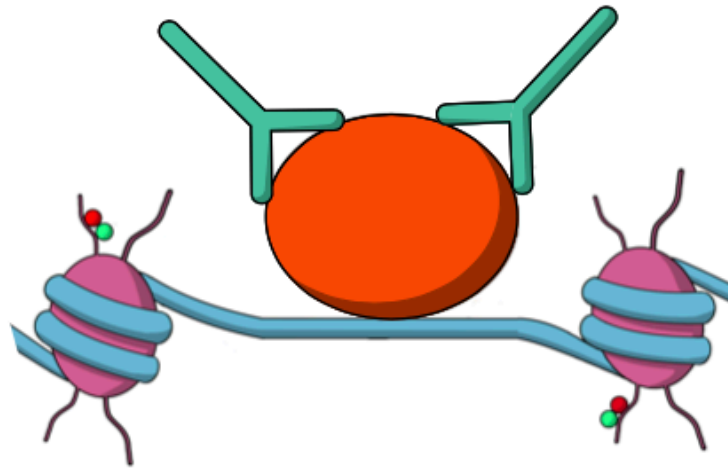


credit.D.Goodsell

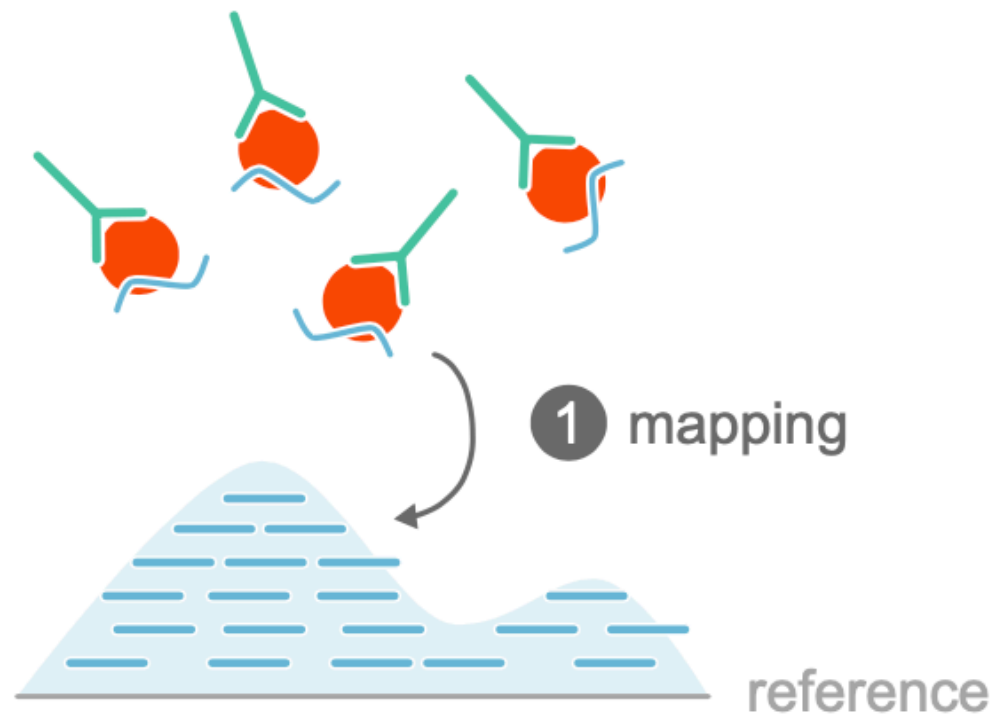


Chromatin Immuno-Precipitation

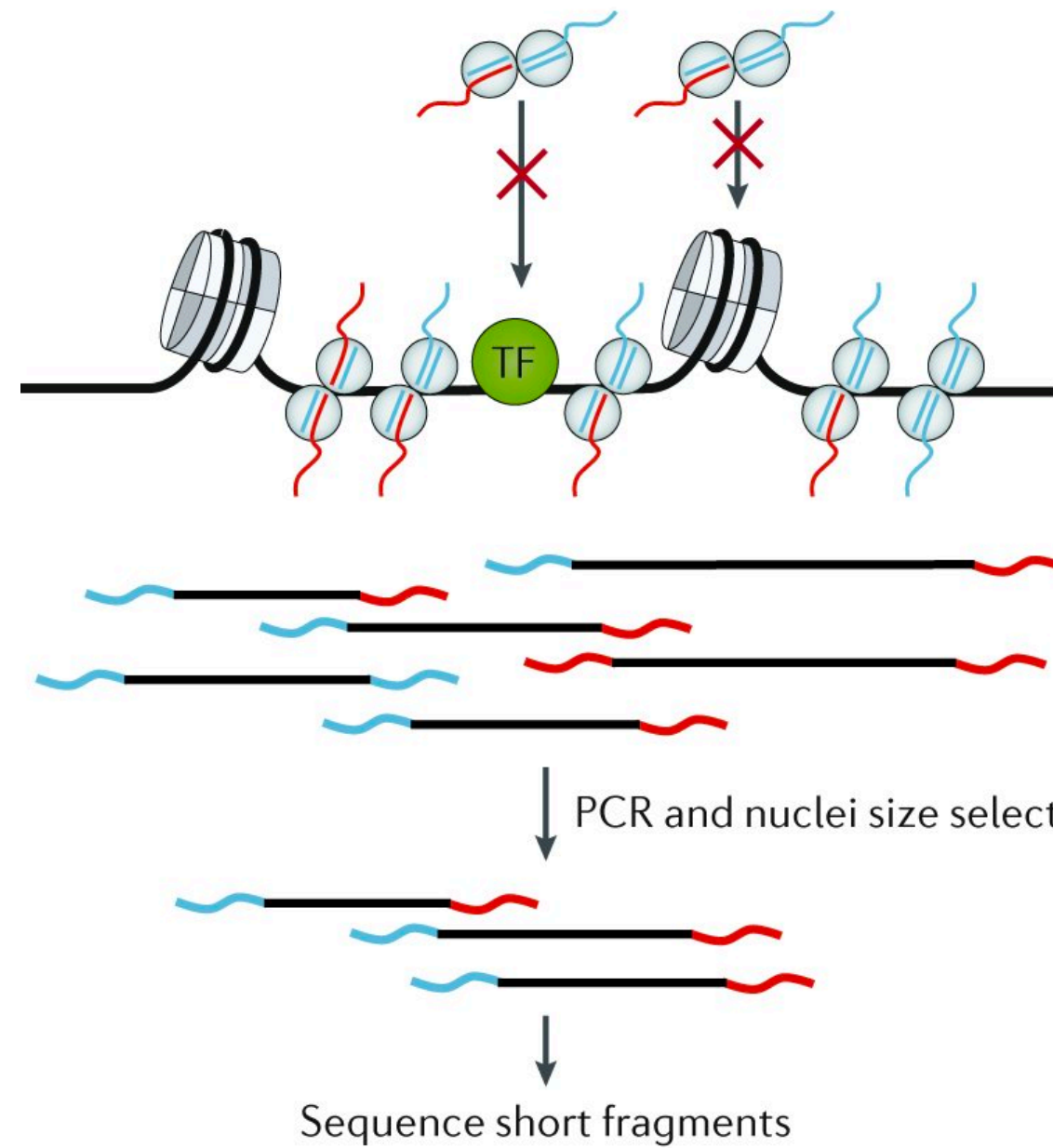
a



b

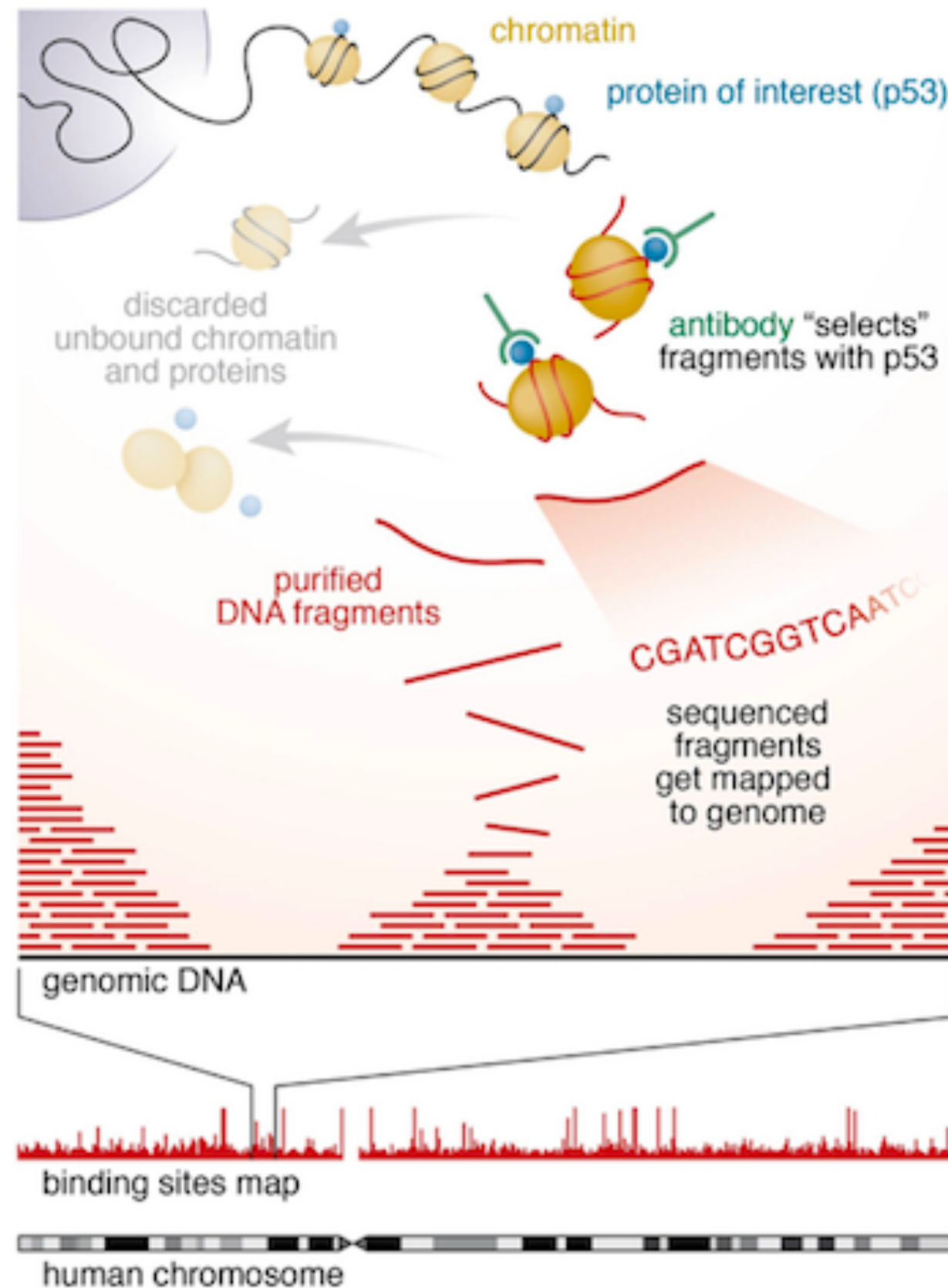


Assay for Transposase-Accessible Chromatin

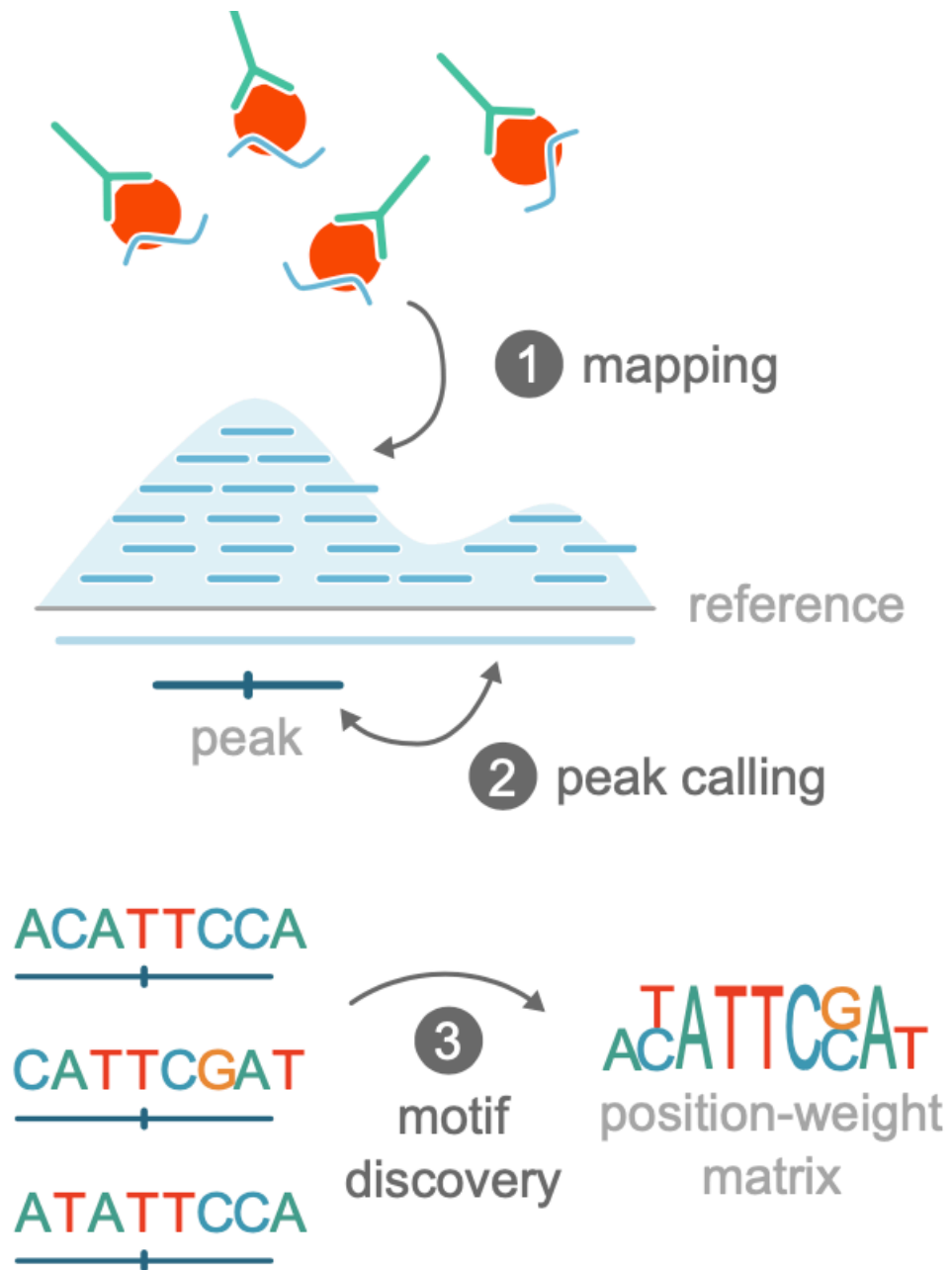


credit.GreenLeaf lab

How can we find our regions of chromatin signal?



Why should we look at chromatin accessibility and/or binding?



Hands-on!



<https://usegalaxy.be/>



local



<http://embnet.ccg.unam.mx/rsat/>

👉 https://github.com/dagousket/chip_seq_training