

# Alignment tools

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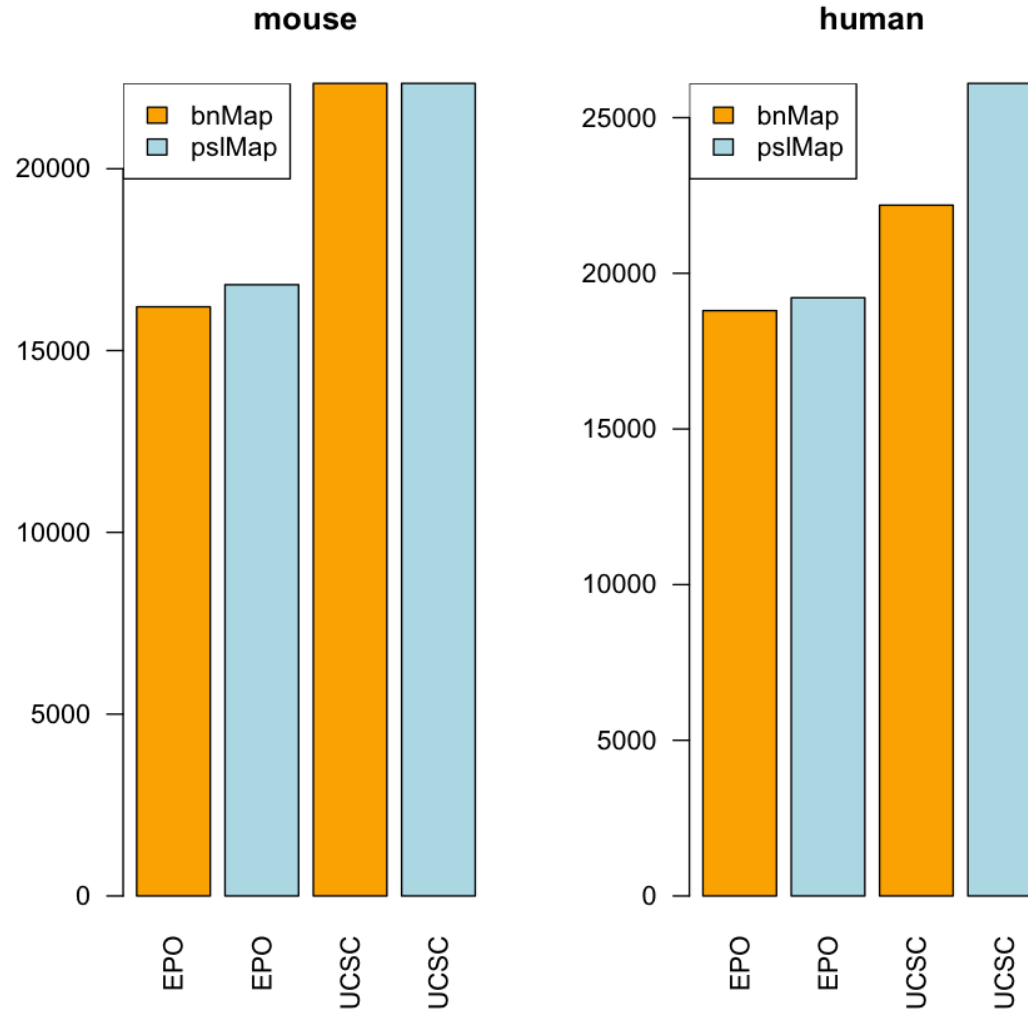
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# Final Candidates list

- EPO
  - bnMap
  - pslMap
- UCSC
  - bnMap
  - pslMap

# Results on GATA1



# Mapper

- bnMap almost completely overlap with pslMap
  - EPO hg 18800/18800
  - EPO mm 16204/16204
  - UCSC hg 22186/22188
  - UCSC mm 22348/22348

# plsMap more signals or more noise?

- Hypothesis
  - If the extra regions mapped by plsMap are unreliable and noisy regions, the overlap between those noisy regions and real occupied sequences should close to random background.

# pslMap more signals or more noise?

- Human
  - EPO (830 extra /114 occupancy conserved(OC))
  - UCSC 4206 /613
- Mouse
  - EPO 1214/175
  - UCSC 0 (N/A)

# Why?

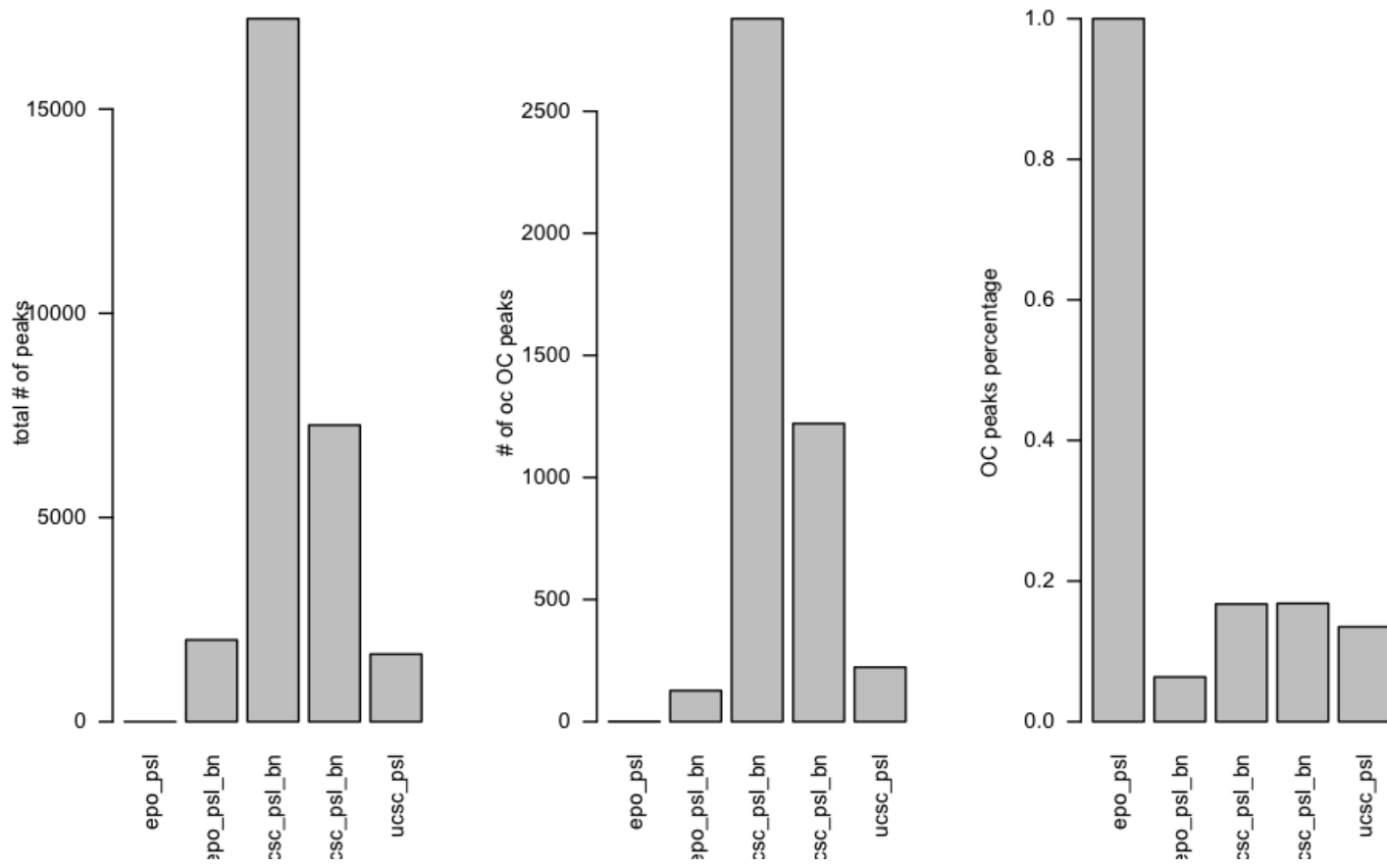
- bnMap's extra filters?

– chr14 47853847 47854025 MACS\_peak\_10025

– chr14 47853745 47853847 MACS\_peak\_10025

# EPO and UCSC

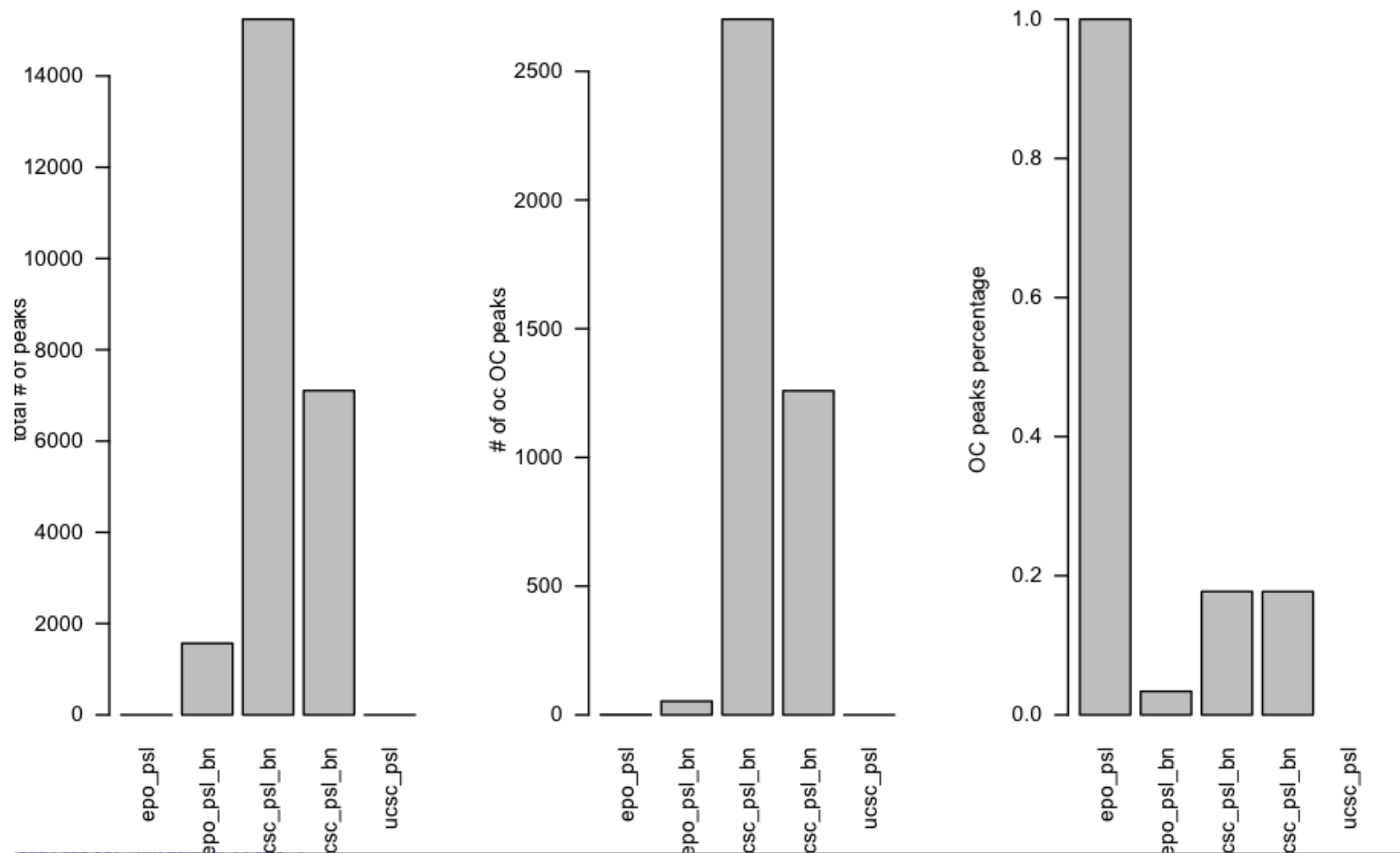
human





# EPO and UCSC

Mouse



# Summary

- bnMap and pslMap have similar performance
  - pslMap more robust and have slightly more coverage (filter setting)
  - bnMap (actively updated, can easily add more options)
- EPO and UCSC
  - UCSC has higher coverage
  - EPO works better in ME rich regions