

deNBI-epi
Berlin

Computational epigenomics tools and training

BIMSB

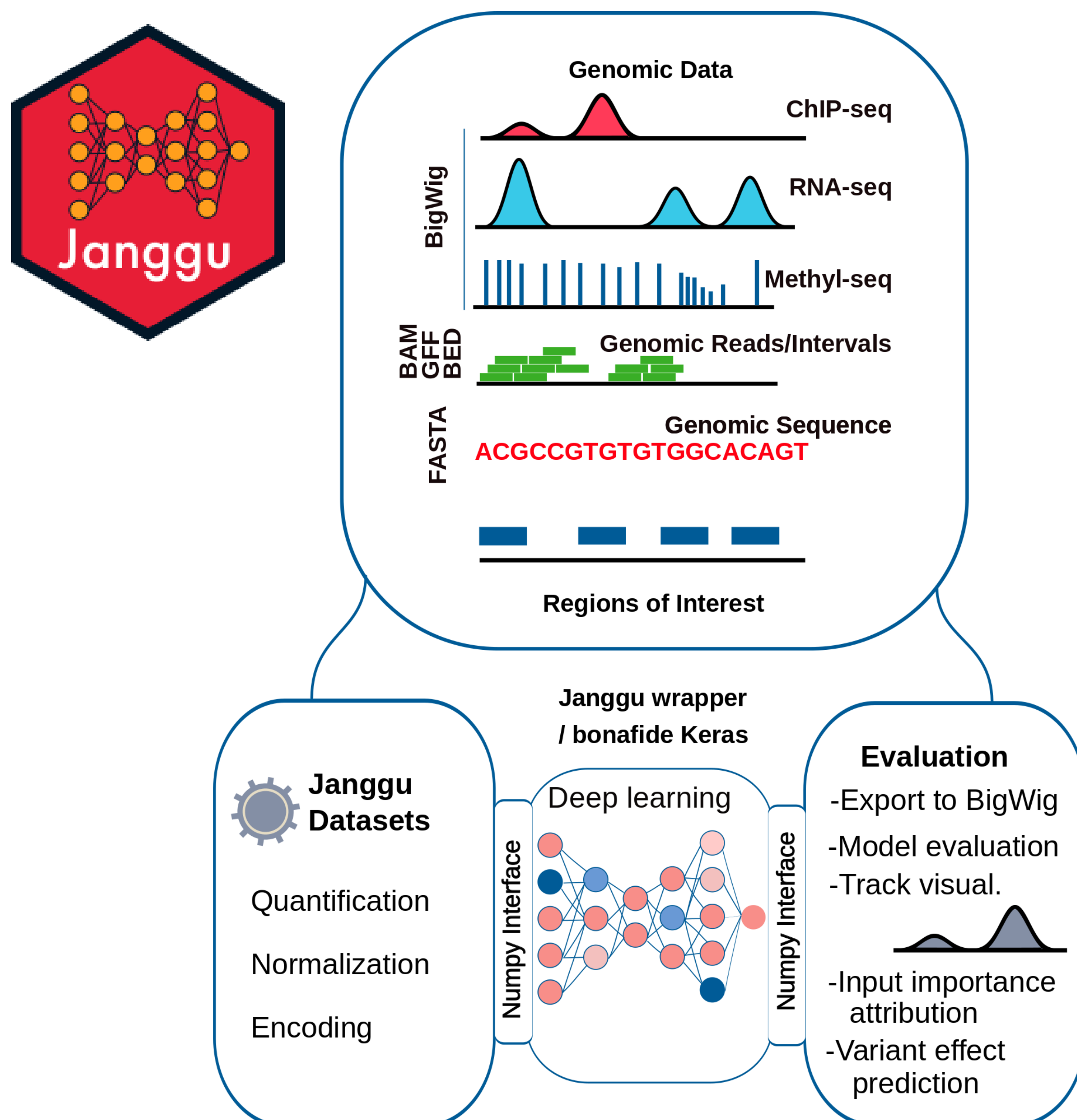
FKZ 031L0101B

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Short description of the project

We offer reproducible tools, services and training for the epigenomics and genomics data analysis community.

de.NBI Services and Tools



Pre-print (under review)
Source: github.com/BIMSBbioinfo/jangu
Downloads (Feb 9, 2020): **21k**>
Highlighted in de.NBI Use Cases brochure

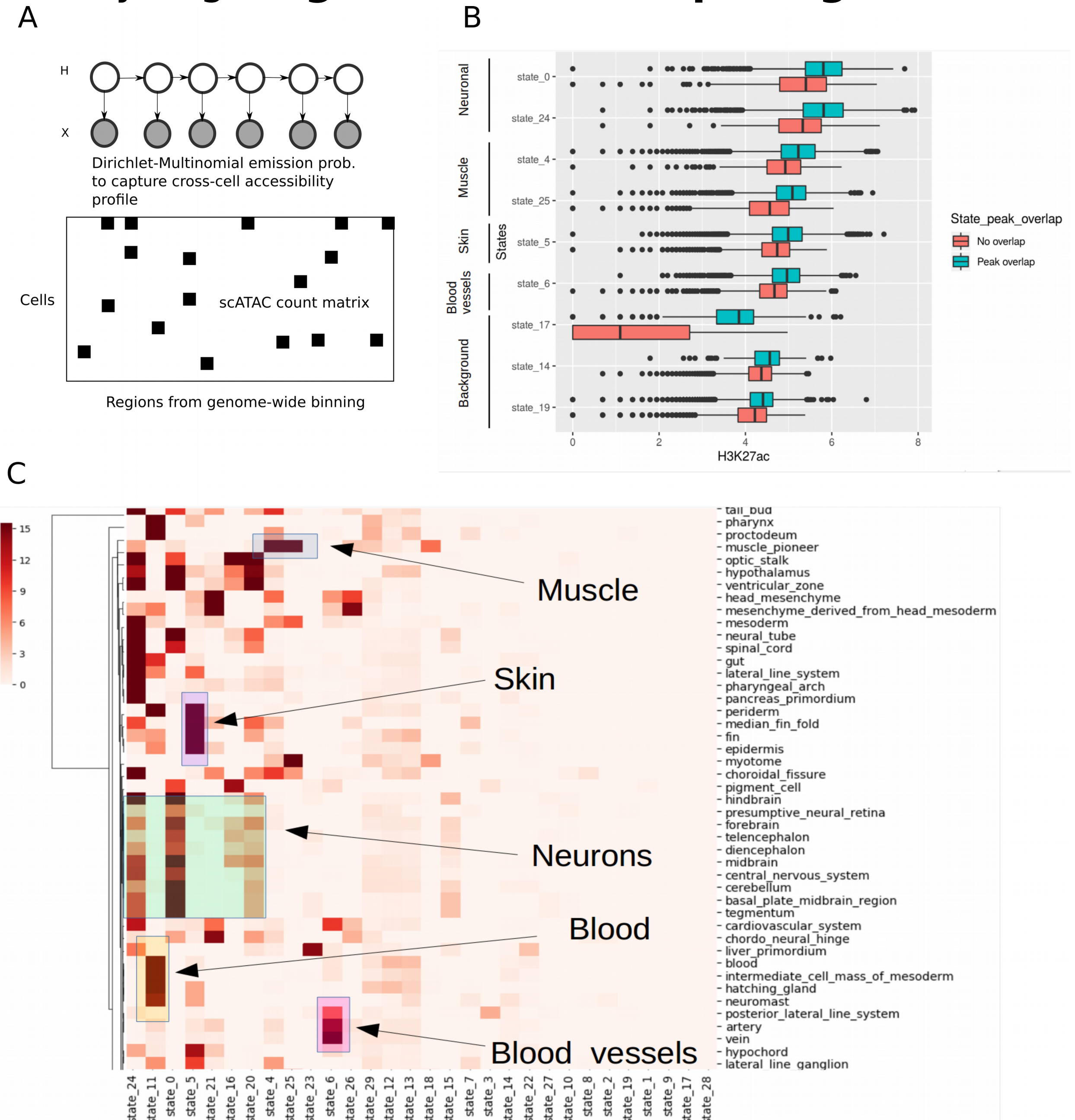
Other Services:



Galaxy server
maintenance at MDC:
100+ total users

Progress report

Analyzing single-cell ATAC-seq using HMMs



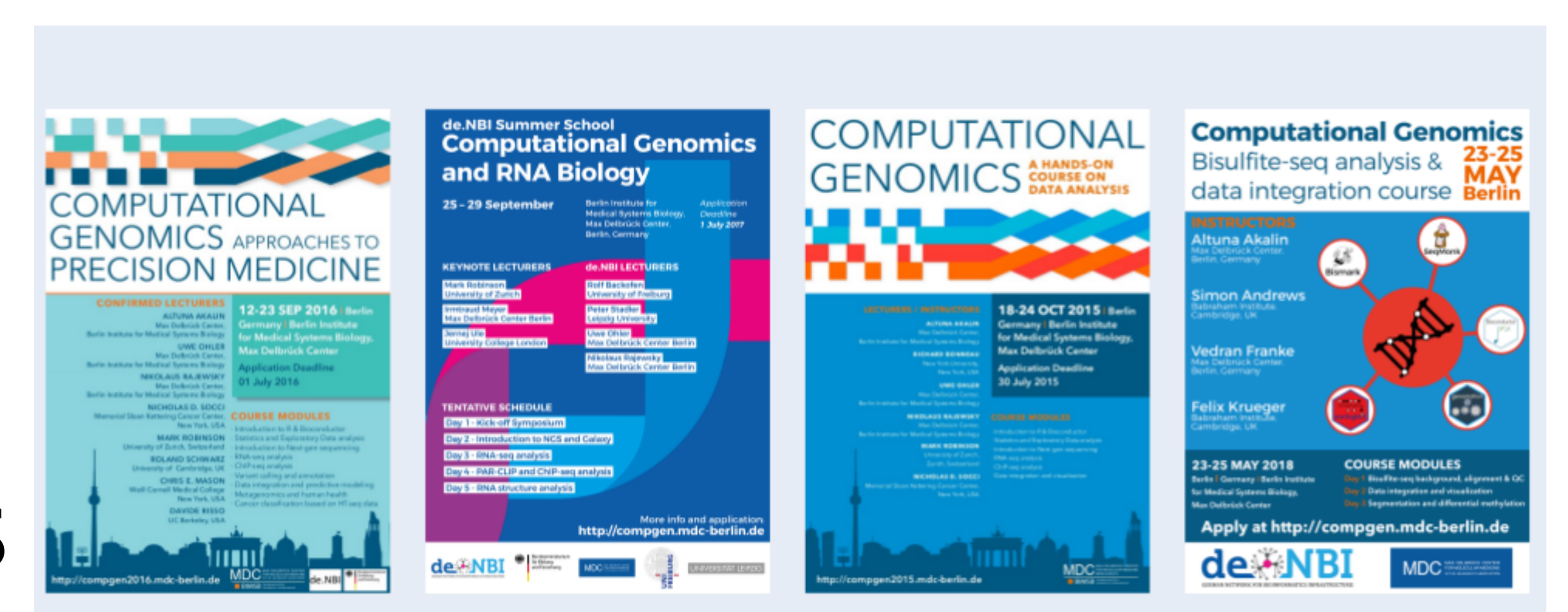
A) Segmentation of scATAC-seq data using HMM captures cell-type specific accessibility. B) Some states reflect regulatory activity as validated using H3K27ac. C) Functional annotation determined by state abundance around marker genes. (Data from McGarvey).

de.NBI Training and education

16
Number of
courses

Yearly public courses on
Computational genomics

273
Number of
participants



Publications

Jangu - Deep learning for genomics. Kopp, Monti, Tamburrini, Ohler, Akalin. Biorxiv, 2019.

General information on the project

- No. of staff paid from de.NBI grant (FTE): 1
- Other staff involved: 4