## **Cell-type annotation Model training** Small dataset **DNA** input (5kb window) ...ACGTCTGACTGA... one-hot encoding 3 convolution layers **BICCN sci-ATAC-seq** 200 filters Meta-analytic 300 filters marker 300 filters Pseudo-bulk profile Fully connected layer **Validation** 512 units chr7,9 Sigmoid function **Test** Binary signal chr1,3,5 (5kb window) **Training** other chr