

Resource Summary Report

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sciMAP-ATAC

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.5r4g58w>

Authors: Andrew Adey, Casey Thornton

Summary: High-throughput single cell genomic assays resolve the heterogeneity of cell states in complex tissues, however, the spatial orientation within the network of interconnected cells is lost. As cell localization is a necessary dimension in understanding complex tissues and disease states, we present a tool for highly scalable spatially-resolved single cell profiling of chromatin state. We use high density multiregional sampling to perform single-cell combinatorial indexing on Microbiopsies Assigned to Positions for the Assay for Transposase Accessible Chromatin (sciMAP-ATAC) to produce single-cell data of equivalent quality to non-spatial single-cell ATAC-seq.

Affiliations: Oregon Health & Science University, Oregon Health & Science University

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