

Resource Summary Report

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CytoVerse

RRID:SCR_028854

Type: Tool

Proper Citation

CytoVerse (RRID:SCR_028854)

Resource Information

URL: <https://cells-test.gi.ucsc.edu/cytoverse/>

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Description: Web application to map single-cell RNA data into AI foundation model spaces. Lets search millions of reference cells and view cell types locally without uploading private data or needing powerful cloud servers. Using ONNX model deployment and compressed IVFPQ indexing, it annotates local datasets against a 23-million-cell reference without server computation, installation, or data upload, and shares embeddings as lightweight files, enabling private, interactive, and collaborative single-cell analysis.

Resource Type: data access protocol, data analysis software, data processing software, data visualization software, software application, software resource, web service

Defining Citation: [PMID:41659670](#)

Keywords: single-cell RNA-seq, foundation models, browser based analysis, WebAssembly, ONNX, scFM, approximate nearest neighbors, latent space collaboration, data privacy,

Funding: Brain and Behavior Research Foundation ;
California Institute for Regenerative Medicine ;
NHGRI RM1HG011543;
NIMH U24MH132628;
NINDS U24NS146314;
NSF ;
University of California Office of the President

Availability: Free, Available for download, Freely available

Resource Name: CytoVerse

Resource ID: SCR_028854

Alternate URLs: <https://github.com/brainengineers/cytoverse>

License: MIT license

Record Creation Time: 20260821T194207+0000

Record Last Update: 20260912T200601+0000

Ratings and Alerts

No rating or validation information has been found for CytoVerse.

No alerts have been found for CytoVerse.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.