

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 29, 2026

[scimap](#)

RRID:SCR_024751

Type: Tool

Proper Citation

scimap (RRID:SCR_024751)

Resource Information

URL: <https://scimap.xyz>

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Description: Software toolkit for analyzing spatial molecular data. Underlying framework is generalizable to spatial datasets mapped to XY coordinates. Package uses anndata framework making it easy to integrate with other popular single-cell analysis toolkits. It includes preprocessing, phenotyping, visualization, clustering, spatial analysis and differential spatial testing. Python based implementation efficiently deals with large datasets of millions of cells.

Resource Type: software application, data analysis software, software resource, data processing software, data visualization software, software toolkit

Keywords: Python, spatial single cell analysis, spatial datasets, analyzing spatial molecular data,

Funding: NCI K99 CA256497

Availability: Free, Available for download, Freely available

Resource Name: scimap

Resource ID: SCR_024751

Alternate URLs: <https://github.com/labsyspharm/scimap>

Record Creation Time: 20231204T190629+0000

Record Last Update: 20260729T044610+0000

Ratings and Alerts

No rating or validation information has been found for scimap.

No alerts have been found for scimap.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Vallius T, et al. (2025) Spatial determinants of tumor cell dedifferentiation and plasticity in primary cutaneous melanoma. bioRxiv : the preprint server for biology.

Leivonen SK, et al. (2025) Characterization of cancer-associated fibroblasts and their spatial architecture reveals heterogeneity and survival associations in classic Hodgkin lymphoma. HemaSphere, 9(5), e70145.

Autio M, et al. (2025) Spatial Analysis of the Tumor Microenvironment in Diffuse Large B-cell Lymphoma Reveals Clinically Relevant Cell Interactions and Recurrent Cellular Neighborhoods. Cancer immunology research, 13(10), 1674.

Shi Y, et al. (2025) Mechanisms of tumor persistence in metastatic melanoma following successful immunotherapy. bioRxiv : the preprint server for biology.

Aung TN, et al. (2025) Spatial signatures for predicting immunotherapy outcomes using multi-omics in non-small cell lung cancer. Nature genetics, 57(10), 2482.

Smith D, et al. (2025) Spatial and single cell mapping of castleman disease reveals key stromal cell types and cytokine pathways. Nature communications, 16(1), 6009.

Williams JB, et al. (2025) Regulatory T cells inhibit CD8+ TRM-like cells during the early stages of tumor immune escape. bioRxiv : the preprint server for biology.

Nirmal AJ, et al. (2024) SCIMAP: A Python Toolkit for Integrated Spatial Analysis of Multiplexed Imaging Data. Journal of open source software, 9(97).

Smith D, et al. (2024) Spatial and Single Cell Mapping of Castleman Disease Reveals Key Stromal Cell Types and Cytokine Pathways. bioRxiv : the preprint server for biology.

Donovan ML, et al. (2024) Protocol for high-plex, whole-slide imaging of human formalin-fixed paraffin-embedded tissue using PhenoCycler-Fusion. STAR protocols, 5(3), 103226.