

Resource Summary Report

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[scanpy](#)

RRID:SCR_018139

Type: Tool

Proper Citation

scanpy (RRID:SCR_018139)

Resource Information

URL: <https://github.com/theislab/scanpy>

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Description: Software Python tool for large scale single cell gene expression data analysis. Integrates analysis possibilities of established R-based frameworks, provides pre processing, visualization, graph-drawing and diffusion maps, clustering, identification of marker genes for clusters via differential expression tests and pseudo temporal ordering via diffusion pseudo time.

Synonyms: Single Cell Analysis in Python

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

Defining Citation: [PMID:29409532](#)

Keywords: Large scale, single cell, gene expression, data analysis, R, pre processing, visualization, graph drawing, diffusion map, clustering, marker gene, differential expression test, bio.tools

Funding: Helmholtz Postdoc Programme ;
German Research Foundation

Availability: Free, Available for download, Freely available

Resource Name: scanpy

Resource ID: SCR_018139

Alternate IDs: biotools:scanpy, BioTools:scanpy

Alternate URLs: <https://icb-scanpy.readthedocs-hosted.com/en/stable/>,
<https://bio.tools/scanpy>, <https://bio.tools/scanpy>, <https://bio.tools/scanpy>

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Record Creation Time: 20220129T080338+0000

Record Last Update: 20260731T043030+0000

Ratings and Alerts

No rating or validation information has been found for scanpy.

No alerts have been found for scanpy.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 221 mentions in open access literature.

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

Chen D, et al. (2026) Spatially Resolved Multiomics Reveals Metabolic Remodeling and Autophagy Activation in Adamantinomatous Craniopharyngiomas. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e16965.

Gocłowski CL, et al. (2025) Galaxy as a gateway to bioinformatics: Multi-Interface Galaxy Hands-on Training Suite (MIGHTS) for scRNA-seq. GigaScience, 14.

Stachelek K, et al. (2025) Chevreul: an R bioconductor package for exploratory analysis of full-length single cell sequencing. GigaByte (Hong Kong, China), 2025, gigabyte158.

Wang K, et al. (2025) Ontogeny Dictates Oncogenic Potential, Lineage Hierarchy, and Therapy Response in Pediatric Leukemia. bioRxiv : the preprint server for biology.

Mostajo-Radji MA, et al. (2025) Fate plasticity of interneuron specification. iScience, 28(4), 112295.

Zeng Y, et al. (2025) Analysis of fatty acid metabolism in prostate cancer and discovery of a new programmed cell death-associated luminal cell subpopulation. Discover oncology, 16(1), 194.

Belfort BDW, et al. (2025) Comparative analysis of AAV serotypes for transduction of olfactory sensory neurons. Frontiers in neuroscience, 19, 1531122.

Gaertner Z, et al. (2025) Molecular and spatial transcriptomic classification of midbrain dopamine neurons and their alterations in a LRRK2G2019S model of Parkinson's disease. eLife, 13.

Marzano P, et al. (2025) Tissue-Specific Immunosuppressive and Proliferating Macrophages Fuel Early Metastatic Progression of Human Colorectal Cancer to the Liver. *Cancer immunology research*, 13(11), 1783.

Yang W, et al. (2025) Single-cell, multi-region profiling of the macaque brain across the lifespan. *bioRxiv : the preprint server for biology*.

Ma H, et al. (2025) Spatially Resolved Tumor Ecosystems and Cell States in Gastric Adenocarcinoma Progression and Evolution. *Cancer discovery*, 15(4), 767.

Siu JHY, et al. (2025) Early lymph node T follicular helper cell signalling hub drives influenza vaccine response in an ancestrally diverse cohort. *EBioMedicine*, 122, 106036.

Liu Y, et al. (2025) SpatialSNV: A novel method for identifying and analyzing spatially resolved SNVs in tumor microenvironments. *GigaScience*, 14.

Janssens J, et al. (2025) Spatial transcriptomics in the adult *Drosophila* brain and body. *eLife*, 13.

Liu YT, et al. (2025) Immune-featured stromal niches associate with response to neoadjuvant immunotherapy in oral squamous cell carcinoma. *Cell reports. Medicine*, 6(3), 102024.

Song Z, et al. (2025) Mega-scale single-cell profiling reveals novel biomarkers associated with acute GvHD after allogeneic hematopoietic stem cell transplantation. *Biomarker research*, 13(1), 155.

Xie H, et al. (2025) Lymphotoxin-driven cancer cell eradication by tumoricidal CD8⁺ TIL. *bioRxiv : the preprint server for biology*.

Hua Y, et al. (2025) SeuratExtend: streamlining single-cell RNA-seq analysis through an integrated and intuitive framework. *GigaScience*, 14.

Holden JM, et al. (2025) Chronic hyperglycemia alters retinal astrocyte microstructure and uptake of cholera toxin B in a murine model of diabetes. *Journal of neurochemistry*, 169(1), e16237.

Furudate K, et al. (2025) Spatial colocalization and molecular crosstalk of myofibroblastic CAFs and tumor cells shape lymph node metastasis in oral squamous cell carcinoma. *PLoS genetics*, 21(9), e1011791.