

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 analysis software, data processing software, software application, 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: German Research Foundation ;
Helmholtz Postdoc Programme

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: 20260821T194140+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 256 mentions in open access literature.

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

Anilkumar Sithara A, et al. (2026) Composition and Functional State of T and NK Cells in the Extramedullary Myeloma Tumor Microenvironment. Blood cancer discovery, 7(2), 250.

Leshem R, et al. (2026) A cell atlas of the developing human outflow tract of the heart and its adult aortic valve derivatives. eLife, 14.

Malainou C, et al. (2026) TNF superfamily member 14 drives post-influenza depletion of alveolar macrophages, enabling secondary pneumococcal pneumonia. The Journal of clinical investigation, 136(2).

Zhang L, et al. (2026) Retinoic Acid Reprograms Mast Cells Toward a Proinflammatory State to Enhance Antitumor Immunity. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(6), e09340.

Wang KM, et al. (2026) ATF4 promotes immune evasion in oral squamous cell carcinoma by suppressing autophagic PD-L1 degradation. Journal for immunotherapy of cancer, 14(5).

Jiménez-Sánchez A, et al. (2026) Transcriptomic Plasticity Is a Hallmark of Metastatic Pancreatic Cancer. Cancer research, 86(7), 1769.

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

Kempynck N, et al. (2026) CREsted: modeling genomic and synthetic cell-type-specific enhancers across tissues and species. Nature methods, 23(5), 946.

Wang K, et al. (2026) Ontogeny Dictates Oncogenic Potential, Lineage Hierarchy, and Therapy Response in Pediatric Leukemia. *Cancer discovery*, 16(3), 541.

Miyamoto T, et al. (2026) Chemotherapy induces an IL1 β -dependent neutrophil recruitment and activation that promote chemoresistance in metastatic ovarian cancer. *Journal for immunotherapy of cancer*, 14(6).

Ren T, et al. (2026) scSurvival: Single-Cell Survival Analysis of Clinical Cancer Cohort Data at Cellular Resolution. *Cancer discovery*, 16(5), 931.

Thienger P, et al. (2026) A Double-Negative Prostate Cancer Subtype Is Vulnerable to SWI/SNF-Targeting Degradable Molecules. *Cancer research*, 86(7), 1570.

Rub J, et al. (2026) Deep-Learning Tool ScVital Enables Species-Agnostic Integration of Cancer Cell States. *Cancer research*, 86(4), 858.

Collot R, et al. (2026) IGSF11-VISTA is a critical and targetable immune checkpoint axis in diffuse midline glioma. *Cancer cell*, 44(3), 641.

Nigri J, et al. (2026) Myofibroblasts Induce Neuroplasticity to Promote Pancreatic Inflammation and Cancer Progression. *Cancer discovery*, 16(5), 1014.

Wang Q, et al. (2026) Serglycin Drives LAG3⁺ Treg Differentiation and Immunosuppression in Gastric Cancer. *Cancer research*, 86(10), 2395.

Kirschstein E, et al. (2026) Myofibroblast programming blocks differentiation of TLS-organizing fibroblastic reticular cells in pancreatic cancer. *Cancer cell*, 44(5), 1080.

Thompson JM, et al. (2026) Nuclei isolation from rat and cow white adipose tissues for single-nucleus RNA sequencing; rat WAT remains a challenge. *Frontiers in physiology*, 17, 1741037.

Feng JX, et al. (2026) Single-cell lineage tracing identifies hemogenic endothelial cells in the adult mouse bone marrow. *eLife*, 15.

Campbell KM, et al. (2026) Cellular neighborhoods govern antitumor T-cell infiltration following anti-CTLA-4 in melanoma with primary resistance to anti-PD-1. *Cancer discovery*.