

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 [ASWG](#) .

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.

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.

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).

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).

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

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

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

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

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.

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

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

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

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

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.

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

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.

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*.