

Resource Summary Report

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Anndata

RRID:SCR_018209

Type: Tool

Proper Citation

Anndata (RRID:SCR_018209)

Resource Information

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

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Description: Software tool that provides scalable way of keeping track of data and learned annotations. Initially built for Scanpy. Used as generic class for handling annotated data matrices. Stores data matrix with annotations of observations (samples, cells) and variables (features, genes), and unstructured annotations.

Synonyms: Annotated data

Resource Type: software application, software resource, data management software

Defining Citation: [PMID:29409532](#)

Keywords: Data tracking, annotated data matrix, store data matrix, annotation of observation, annotation of variable, unstructured annotation, sparse data,

Funding: Helmholtz Postdoc Programme ;
German Research Foundation

Resource Name: Anndata

Resource ID: SCR_018209

Alternate URLs: <https://sources.debian.org/src/python3-anndata/>

License: BSD 3-Clause "New" or "Revised" License

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260805T044418+0000

Ratings and Alerts

No rating or validation information has been found for Anndata.

No alerts have been found for Anndata.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

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.

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.

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

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

Yisrael-Gayle K, et al. (2025) Evidence for Aerosolized Environmental Bacterial Endotoxin as an Environmental Health Hazard. *medRxiv : the preprint server for health sciences*.

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

Bui HV, et al. (2025) White and brown adipose tissue share a convergent fibro-adipogenic progenitor population. *EMBO reports*, 26(22), 5612.

Khadim A, et al. (2025) Myofibroblasts emerge during alveolar regeneration following influenza-virus-induced lung injury. *Cell reports*, 44(2), 115248.

Gemünd I, et al. (2025) Characterization of human CMV-specific CD8+ T cells using multi-layer single-cell omics. *Cell reports methods*, 5(7), 101085.

Liu F, et al. (2025) TAF1 is required for fetal but not adult hematopoiesis in mice. *Developmental cell*.

Youlten SE, et al. (2025) In vivo differentiation of embryonic cells devoid of key reprogramming factors. *Cell reports*, 44(11), 116498.

Mahuron KM, et al. (2025) Single-Cell Analyses Reveal a Functionally Heterogeneous Exhausted CD8+ T-cell Subpopulation That Is Correlated with Response to Checkpoint Therapy in Melanoma. *Cancer research*, 85(8), 1424.

Booeshaghi AS, et al. (2024) Quantifying orthogonal barcodes for sequence census assays. *Bioinformatics advances*, 4(1), vbad181.

Wang Y, et al. (2024) Identification of JUN gene and cellular microenvironment in response to PD-1 blockade treatment in lung cancer patients via single-cell RNA sequencing. *Aging*, 16(12), 10348.

Sun N, et al. (2024) Establishing a 3D culture system for early organogenesis of monkey embryos ex vivo and single-cell transcriptome analysis of cultured embryos. *STAR protocols*, 5(1), 102835.

Fowler JL, et al. (2024) Lineage-tracing hematopoietic stem cell origins in vivo to efficiently make human HLF+ HOXA+ hematopoietic progenitors from pluripotent stem cells. *Developmental cell*, 59(9), 1110.

Wang W, et al. (2024) Single-cell analysis of tumor microenvironment and cell adhesion reveals that interleukin-1 beta promotes cancer cell proliferation in breast cancer. *Animal models and experimental medicine*, 7(5), 617.

Chiou KL, et al. (2023) A single-cell multi-omic atlas spanning the adult rhesus macaque brain. *Science advances*, 9(41), eadh1914.

Gray GK, et al. (2023) Single-cell and spatial analyses reveal a tradeoff between murine mammary proliferation and lineage programs associated with endocrine cues. *Cell reports*, 42(10), 113293.

Mzoughi S, et al. (2023) A Mutation-driven oncofetal regression fuels phenotypic plasticity in colorectal cancer. *bioRxiv : the preprint server for biology*.