Resource Summary Report

Generated by NIF on May 22, 2025

Seurat

RRID:SCR_016341

Type: Tool

Proper Citation

Seurat (RRID:SCR_016341)

Resource Information

URL: https://satijalab.org/seurat/get_started.html

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Description: Software as R package designed for QC, analysis, and exploration of single cell RNA-seq data. Enable users to identify and interpret sources of heterogeneity from single cell transcriptomic measurements, and to integrate diverse types of single cell data.

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

Defining Citation: PMID:29608179

Keywords: single, cell, genomic, RNA-seq, data, QC, analysis, source, heterogeneity, transcriptomic, measurement, integrate, diverse

Funding:

Availability: Free, Available for download, Freely available

Resource Name: Seurat

Resource ID: SCR_016341

Alternate URLs: https://github.com/satijalab/seurat

License: GNU Public License (GPL 3.0)

Record Creation Time: 20220129T080330+0000

Record Last Update: 20250522T061033+0000

Ratings and Alerts

No rating or validation information has been found for Seurat.

No alerts have been found for Seurat.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 6456 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Hu Z, et al. (2025) AAV mediated carboxyl terminus of Hsp70 interacting protein overexpression mitigates the cognitive and pathological phenotypes of APP/PS1 mice. Neural regeneration research, 20(1), 253.

Lanickova T, et al. (2025) Chemotherapy Drives Tertiary Lymphoid Structures That Correlate with ICI-Responsive TCF1+CD8+ T Cells in Metastatic Ovarian Cancer. Clinical cancer research: an official journal of the American Association for Cancer Research, 31(1), 164.

Kerrigan L, et al. (2025) Integrin beta-like 1 is regulated by DNA methylation and increased in heart failure patients. ESC heart failure, 12(1), 150.

Chen Y, et al. (2025) Impacts of Nutlin-3a and exercise on murine double minute 2-enriched glioma treatment. Neural regeneration research, 20(4), 1135.

Chen J, et al. (2025) Mutual regulation of microglia and astrocytes after Gas6 inhibits spinal cord injury. Neural regeneration research, 20(2), 557.

Yu GT, et al. (2025) Mapping epidermal and dermal cellular senescence in human skin aging. Aging cell, 24(1), e14358.

Zeng W, et al. (2025) Ferroptotic Neutrophils Induce Immunosuppression and Chemoresistance in Breast Cancer. Cancer research, 85(3), 477.

Voit RA, et al. (2025) Regulated GATA1 expression as a universal gene therapy for Diamond-Blackfan anemia. Cell stem cell, 32(1), 38.

Jiang J, et al. (2025) scLTdb: a comprehensive single-cell lineage tracing database. Nucleic acids research, 53(D1), D1173.

Long J, et al. (2025) PD-1+CD8+ T Cell-Mediated Hepatocyte Pyroptosis Promotes Progression of Murine Autoimmune Liver Disease. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(1), e2407284.

Liao F, et al. (2025) The role of FOXK2-FBXO32 in breast cancer tumorigenesis: Insights into ribosome-associated pathways. Thoracic cancer, 16(1), e15482.

Smith NJ, et al. (2025) Differentiation signals induce APOBEC3A expression via GRHL3 in squamous epithelia and squamous cell carcinoma. The EMBO journal, 44(1), 1.

Angarola BL, et al. (2025) Comprehensive single-cell aging atlas of healthy mammary tissues reveals shared epigenomic and transcriptomic signatures of aging and cancer. Nature aging, 5(1), 122.

Song HM, et al. (2025) A diagnostic signatures for intervertebral disc degeneration using TNFAIP6 and COL6A2 based on single-cell RNA-seq and bulk RNA-seq analyses. Annals of medicine, 57(1), 2443568.

Wang T, et al. (2025) Single-cell transcriptomes reveal spatiotemporal heat stress response in maize roots. Nature communications, 16(1), 177.

Lupu IE, et al. (2025) Direct specification of lymphatic endothelium from mesenchymal progenitors. Nature cardiovascular research, 4(1), 45.

Coulombe P, et al. (2025) Deciphering the effect of UM171 on human hematopoietic progenitor cell fate through clonal analysis. Nature communications, 16(1), 195.

Marcassa G, et al. (2025) Synaptic signatures and disease vulnerabilities of layer 5 pyramidal neurons. Nature communications, 16(1), 228.

Wang Z, et al. (2025) Identification of human cranio-maxillofacial skeletal stem cells for mandibular development. Science advances, 11(1), eado7852.

Guo C, et al. (2025) Specifically blocking ?v?8-mediated TGF-? signaling to reverse immunosuppression by modulating macrophage polarization. Journal of experimental & clinical cancer research: CR, 44(1), 1.