

Resource Summary Report

Generated by [dkNET](#) 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: software resource, data analysis software, software toolkit, software application, data processing software

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

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 [dkNET](#).

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.

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.

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.

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

Li X, et al. (2025) Single-Cell RNA sequencing reveals mitochondrial dysfunction in microtia chondrocytes. *Scientific reports*, 15(1), 1021.

Fei X, et al. (2025) Helicobacter pylori infection promotes M1 macrophage polarization and gastric inflammation by activation of NLRP3 inflammasome via TNF/TNFR1 axis. *Cell communication and signaling : CCS*, 23(1), 6.

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

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.

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.

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

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.

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.

Wang K, et al. (2025) Exploring the Role of Ccn3 in Type III Cell of Mice Taste Buds. *Journal of neurochemistry*, 169(1), e16291.

Lu Y, et al. (2025) Targeting the NLRP3 inflammasome abrogates cardiotoxicity of immune checkpoint blockers. *Journal for immunotherapy of cancer*, 13(1).

Ge J, et al. (2025) TGF- β signaling orchestrates cancer-associated fibroblasts in the tumor microenvironment of human hepatocellular carcinoma: unveiling insights and clinical significance. *BMC cancer*, 25(1), 113.

Lang A, et al. (2025) Local erythropoiesis directs oxygen availability in bone fracture repair. *bioRxiv : the preprint server for biology*.

Zhang S, et al. (2025) Integrative single-cell and multi-omics analyses reveal ferroptosis-associated gene expression and immune microenvironment heterogeneity in gastric cancer. *Discover oncology*, 16(1), 57.