Resource Summary Report

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Seurat

RRID:SCR_016341
Type: Tool

Proper Citation

Seurat (RRID:SCR_016341)

Resource Information

URL: https://github.com/satijalab/seurat

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Description: Software 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. Used for quality control, analysis, and exploration of single-cell RNA sequencing (scRNA-seq) data.

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

Defining Citation: PMID:29608179

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

Funding: NHGRI 1DP2HG009623;
NIMH 5R01MH071679;
NSF

Availability: Free, Available for download, Freely available

Resource Name: Seurat

Resource ID: SCR_016341

Old URLs: https://satijalab.org/seurat/get_started.html

License: GNU GPL v3.0

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260731T043009+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 9395 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Jiang T, et al. (2026) Blood-brain barrier disruption and neuroinflammation in the hippocampus of a cardiac arrest porcine model: Single-cell RNA sequencing analysis. Neural regeneration research, 21(2), 742.

Zhou Q, et al. (2026) Natural, safety immunomodulatory derivatives of lactobacillus biofilms promote diabetic wound healing by metabolically regulating macrophage phenotype and alleviating local inflammation. Journal of advanced research, 79, 917.

Darlington KC, et al. (2026) Myeloid Cell Adhesion Molecule 1 (CADM1) Promotes Proinflammatory Signaling in Human Inflammatory Bowel Diseases. Cellular and molecular gastroenterology and hepatology, 20(1), 101618.

Vinogradov-Talyah E, et al. (2026) Human clearance systems have a layered architecture across tissues and cell types that supports varied proteome compositions. Autophagy, 22(1), 145.

Chen K, et al. (2026) Liquid?liquid phase separation of PHLDB2 promotes oral squamous cell carcinoma metastasis through regulating epithelial mesenchymal transition and PIK3CA expression. Molecular medicine reports, 33(1).

An Y, et al. (2026) Activation and Spatial Redistribution of RNA Splicing Factors Trigger Hepatic Regeneration. Cellular and molecular gastroenterology and hepatology, 20(2), 101654.

Li H, et al. (2026) Single-cell and spatial transcriptomics reveal P4HA2-mediated radiotherapy resistance mechanisms in breast cancer. Theranostics, 16(5), 2192.

Xiong Z, et al. (2026) C/EBP?-induced alternative splicing of RCAN1 generates a potent TCR-T target in mesenchymal glioblastoma. Cellular & molecular immunology, 23(1), 94.

Zou Y, et al. (2026) Gut microbiota dysbiosis exacerbates acute pancreatitis via Escherichia coli-driven neutrophil heterogeneity and NETosis. Gut microbes, 18(1), 2606480.

Kim BG, et al. (2026) CD45? hybrid circulating cells may reflect tumor-immune interactions and serve as transcriptomic indicators of metastatic potential in prostate cancer. Theranostics, 16(3), 1594.

Burn TN, et al. (2026) Antigen reactivity defines tissue-resident memory and exhausted T cells in tumors. Nature immunology, 27(1), 98.

Makhmut A, et al. (2026) Spatial proteomics of ovarian cancer precursors delineates early disease changes and drug targets. Molecular systems biology, 22(1), 7.

Vitantonio AT, et al. (2026) Calorie Restriction Attenuates Transcriptional Aging Signatures in White Matter Oligodendrocytes and Immune Cells of the Monkey Brain. Aging cell, 25(1), e70298.

Idorn M, et al. (2026) Role for NF-?B in herpes encephalitis pathology in mice genocopying an inborn error of IRF3-IFN immunity. The Journal of experimental medicine, 223(1).

Chen ZC, et al. (2026) The Role of Sphingolipid Metabolism and Neuron Death in Ischemic Stroke: A New Perspective from Bioinformatics. Brain and behavior, 16(1), e71172.

Zarodniuk M, et al. (2026) Mechanical compression induces neuronal apoptosis, reduces synaptic activity, and promotes glial neuroinflammation in mice and humans. Proceedings of the National Academy of Sciences of the United States of America, 123(1), e2513172122.

Li X, et al. (2026) Fibroblast growth factor 21 (FGF21) promoter methylation drives the progression of chronic hepatitis B by mediating oxidative stress and inflammatory immunity. Microbiology spectrum, 14(1), e0276925.

Goala P, et al. (2026) IFN-?-driven skewing towards Th1 over Th17 differentiation underlies CRS and neutropenia in CAR-T therapy. The Journal of clinical investigation, 136(1).

Stifter SA, et al. (2026) XPR1 regulates fetal liver macrophage development, identity, and pyrenocyte clearance. The Journal of experimental medicine, 223(2).

Hu X, et al. (2026) Pan-cancer bone metastasis atlas at single-cell resolution identifies a distinct tumor-associated macrophage subset for mediating Denosumab-induced immunosensitization in lung cancer bone metastasis. International journal of biological sciences, 22(1), 365.