

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 analysis software, software application, software toolkit, software resource, data processing software

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: 20260811T043539+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 11480 mentions in open access literature.

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

Ye J, et al. (2026) Neuron-specific transcriptomic dysregulation in methotrexate-induced cognitive impairment revealed by SnRNA-seq. International journal of surgery (London, England), 112(1), 511.

Li Q, et al. (2026) Phase 1 dose-escalation trial of sub-endometrial injection of human embryonic stem cells-derived immunity-and-matrix-regulatory cells to promote endometrial angiogenesis in refractory intrauterine adhesion. Molecular therapy : the journal of the American Society of Gene Therapy, 34(1), 423.

Li J, et al. (2026) FNDC4 Drives Metastasis and Immune Evasion in Pancreatic Cancer. Cancer research, 86(2), 349.

Nakao Y, et al. (2026) A Human Kidney Tubuloid Model of Repeated Cisplatin-Induced Cellular Senescence and Fibrosis for Drug Screening. Advanced healthcare materials, 15(7), e01795.

Zhao Z, et al. (2026) Integrating bulk and single-cell sequencing reveals cellular heterogeneity between lung adenocarcinoma in smokers and never-smokers. Journal of biomedical research, 40(3), 247.

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.

Ha HT, et al. (2026) Human Atlas of Tooth Decay Progression: Identification of Cellular Mechanisms Driving the Switch from Dental Pulp Repair Toward Irreversible Pulpitis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(8), e10096.

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.

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.

Kangsheng L, et al. (2026) Identifying Immunological Biomarkers for Major Depressive Disorder: Insights From Machine Learning, Single-Nucleus Bioinformatics, and Experimental Validation. *BioMed research international*, 2026(1), e6184295.

Wang Z, et al. (2026) Spatial multi-omics unveils the monoclonal origin, neuroendocrine plasticity, and microenvironment niches in combined small-cell lung cancer. *Cell reports. Medicine*, 7(4), 102741.

Chang J, et al. (2026) CD14+CD16- monocytes exhibit NF- κ B hyperactivation in biliary atresia: Clinical association and murine therapeutic validation. *Hepatology communications*, 10(5).

Zhou T, et al. (2026) ZNF750 suppresses esophageal squamous cell carcinoma by maintaining epithelial barrier-driven mucosal immune homeostasis. *Biology direct*, 21(1).

Picard M, et al. (2026) Multiomic analysis of colorectal adenocarcinoma reveals a new subtype of myofibroblastic cancer-associated fibroblasts that express high levels of B7-H3 and have poor-prognosis value. *Journal for immunotherapy of cancer*, 14(2).

Wang Z, et al. (2026) Coagulation factor V as a novel regulator of tumor immunity in melanoma. *World journal of surgical oncology*, 24(1).

Chen S, et al. (2026) Age-associated differences in XBB.1.5 trivalent booster vaccine-induced adaptive responses revealed by single-cell RNA sequencing. *Emerging microbes & infections*, 15(1), 2627067.

Shi T, et al. (2026) Single-Cell Transcriptomic Atlases of Camels and Cattle Unravel Molecular Evolution of Digestive and Metabolic Systems. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(20), e19346.

Cruz J, et al. (2026) Single-cell transcriptomics of X-ray irradiated *Drosophila* wing discs reveals heterogeneity related to cell-cycle status and cell location. *eLife*, 14.

Zabri H, et al. (2026) ATGL From iWAT and BAT Is Crucial for Cardiac Remodeling and Metabolism After Myocardial Ischemia/Reperfusion. *Comprehensive Physiology*, 16(1), e70106.

Yin W, et al. (2026) Targeting TCF21-TCF3 heterodimer in tumor-associated pericytes attenuates hematogenous metastasis by restoring pericyte gatekeeper function. *Cell reports. Medicine*, 7(1), 102569.