

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

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: 20260821T194045+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](#) .

Wang Y, et al. (2026) Single-Nucleus Transcriptomic Sequencing Revealed Cellular and Molecular Changes in a Pilocarpine-Induced Epilepsy Rat Model. Neuroscience bulletin, 42(3), 539.

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.

Zheng C, et al. (2026) ICAM-1 identifies preadipocytes and restricts white adipogenesis by adhering immune cells. Cell death and differentiation, 33(2), 298.

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.

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.

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 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.

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.

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.

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.

Du L, et al. (2026) Cell-Type-Specific and Variety-Specific Responses to Salt Stress in Wheat Root Revealed by Single-Cell Transcriptomics. *Plant biotechnology journal*, 24(3), 1446.

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).

Xie L, et al. (2026) Single-Cell RNA Sequencing of Retina Reveals Nna1 Upregulation in Myopic Diabetic Retinopathy as a Protective Factor Against Diabetic Damage. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(5), e00438.

Cinat D, et al. (2026) Notch signaling is a driver of glandular stem cell activity and regenerative migration after damage. *The EMBO journal*, 45(2), 374.

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

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.

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.

Suresh V, et al. (2026) Modelling EWS::FLI1 protein fluctuations reveal determinants of tumor plasticity in Ewing sarcoma. *EMBO molecular medicine*, 18(2), 646.

Yesharim Y, et al. (2026) Single-nucleotide m⁶A mapping uncovers redundant YTHDF function in planarian progenitor fate selection. *The EMBO journal*, 45(3), 749.