

# Resource Summary Report

Generated by [kravitz2](#) on Jul 28, 2026

## SingleR

RRID:SCR\_023120

Type: Tool

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### Proper Citation

SingleR (RRID:SCR\_023120)

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### Resource Information

**URL:** <https://www.bioconductor.org/packages/release/bioc/html/SingleR.html>

**Proper Citation:** SingleR (RRID:SCR\_023120)

**Description:** Software R package for unbiased cell type recognition of scRNA-seq data. Performs unbiased cell type recognition from single-cell RNA sequencing data, by leveraging reference transcriptomic datasets of pure cell types to infer cell of origin of each single cell independently.

**Synonyms:** Single-cell RNA-seq cell types Recognition

**Resource Type:** software resource, software toolkit

**Defining Citation:** [PMID:30643263](#)

**Keywords:** unbiased cell type recognition, scRNA-seq data, reference transcriptomic datasets, pure cell types, infer cell of origin

**Funding:** UCSF Marcus Award ;  
NHLBI HL131560;  
UCSF Nina Ireland Program award ;  
NHLBI HL139897;  
NIAID

**Availability:** Free, Available for download, Freely available

**Resource Name:** SingleR

**Resource ID:** SCR\_023120

**Alternate URLs:** <https://github.com/dviraran/SingleR>, <https://github.com/LTLA/SingleR>

**License:** GNU GPL v3

**Record Creation Time:** 20230116T062750+0000

**Record Last Update:** 20260725T191310+0000

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## Ratings and Alerts

No rating or validation information has been found for SingleR.

No alerts have been found for SingleR.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 321 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#) .

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

Ran W, et al. (2026) Interferon-stimulated gene GALNT2 restricts respiratory virus infections. Nature microbiology, 11(1), 256.

Kim H, et al. (2026) Myelin antigen capture in the CNS by B cells expressing EBV latent membrane protein 1 leads to demyelinating lesion formation. Cell.

Patai R, et al. (2025) Transcriptomic profiling of senescence effects on blood-brain barrier-related gene expression in brain capillary endothelial cells in a mouse model of paclitaxel-induced chemobrain. GeroScience, 47(3), 3677.

Qin D, et al. (2025) Unraveling shared diagnostic genes and cellular microenvironmental changes in endometriosis and recurrent implantation failure through multi-omics analysis. Scientific reports, 15(1), 9110.

Yijia Z, et al. (2025) Identification of intratumoral microbiome-driven immune modulation and therapeutic implications in diffuse large B-cell lymphoma. Cancer immunology, immunotherapy : CII, 74(4), 131.

Zhang X, et al. (2025) Expression of stearyl coenzyme a desaturase in neuronal cells facilitates pancreatic cancer progression. Cancer cell international, 25(1), 57.

Maimaiti Y, et al. (2025) FOXO regulation of TXNIP induces ferroptosis in satellite cells by inhibiting glutathione metabolism, promoting Sarcopenia. Cellular and molecular life sciences : CMLS, 82(1), 81.

Huang G, et al. (2025) Integrating RNA-seq and scRNA-seq to explore the prognostic features and immune landscape of exosome-related genes in breast cancer metastasis. *Annals of medicine*, 57(1), 2447917.

Yu J, et al. (2025) Integration of single-cell sequencing and mendelian randomization reveals novel causal pathways between monocytes and hepatocellular carcinoma. *Discover oncology*, 16(1), 604.

Chi F, et al. (2025) Single-cell transcriptomics reveals the interaction between fibroblasts and activated immune cells: an exploratory bioinformatics study of pro-inflammatory mechanisms in slow transit constipation. *International journal of surgery (London, England)*, 111(6), 3767.

Li N, et al. (2025) Single-cell transcriptomic profiling uncovers cellular complexity and microenvironment in gastric tumorigenesis associated with *Helicobacter pylori*. *Journal of advanced research*, 74, 471.

Chen J, et al. (2025) The spatiotemporal transcriptional profiling of murine brain during cerebral malaria progression and after artemisinin treatment. *Nature communications*, 16(1), 1540.

Dai P, et al. (2025) USP2 inhibition unleashes CD47-restrained phagocytosis and enhances anti-tumor immunity. *Nature communications*, 16(1), 4564.

Zhu J, et al. (2025) Prognostic and immunological characterization of osteosarcoma patients evaluated by liquid-liquid phase separation related genes. *Discover oncology*, 16(1), 958.

Li W, et al. (2025) Exploring ferroptosis-associated immune characteristics in Kawasaki disease through bioinformatics. *Scientific reports*, 15(1), 30261.

Cao Z, et al. (2025) Integrated single-cell and bulk RNA sequencing analysis establishes a cancer associated fibroblast-related signature for predicting prognosis and therapeutic responses in neuroblastoma. *Discover oncology*, 16(1), 1235.

Yao S, et al. (2025) SmartImpute is a targeted imputation framework for single-cell transcriptome data. *Cell reports methods*, 5(8), 101122.

Bai B, et al. (2025) Targeting Hepatic Stellate Cell PD-L1 Alters Liver Inflammation and Fibrosis in CCl<sub>4</sub> Liver Injury Mouse Model. *Cellular and molecular gastroenterology and hepatology*, 19(11), 101587.

Ma T, et al. (2025) Pan-Cancer Analyses Refine the Single-Cell Portrait of Tumor-Infiltrating Dendritic Cells. *Cancer research*, 85(19), 3596.