

Resource Summary Report

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SingleR

RRID:SCR_023120

Type: Tool

Proper Citation

SingleR (RRID:SCR_023120)

Resource Information

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

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

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: 20260821T194232+0000

Ratings and Alerts

No rating or validation information has been found for SingleR.

No alerts have been found for SingleR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 411 mentions in open access literature.

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

See SB, et al. (2026) Dominant intragraft plasma cells targeting bilirubin implicate local heme catabolism in human cardiac allograft vasculopathy. The Journal of clinical investigation, 136(3).

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

Chiu YJ, et al. (2026) LIMPACAT: Multi-omics attention transformer for immune prediction in liver cancer using whole-slide imaging. PloS one, 21(1), e0339667.

Yin S, et al. (2026) Diethyl Phthalate (DEP) as a potential osteosarcoma risk factor: a multi-omics study integrating network Toxicology, single-cell RNA sequencing, and molecular docking. Journal of enzyme inhibition and medicinal chemistry, 41(1), 2611582.

Zhu G, et al. (2026) Deciphering CD4+ Naive T cell-mediated divergent pathogenic links between type 2 diabetes and pathologic scarring via an integrated multi-omics approach. International journal of surgery (London, England), 112(4), 9378.

Golec DP, et al. (2026) A PI3K γ -Foxo1-FasL signaling amplification loop rewires CD4+ T cell signaling and differentiation. The Journal of experimental medicine, 223(4).

Jeong D, et al. (2026) Multidimensional profiling of heterogeneity in supratentorial ependymomas. Nature, 652(8111), 1016.

Lian C, et al. (2026) Hexokinase 3 promoted cytokine production of monocytes by targeting metabolic reprogramming and histone lactylation in sepsis. Clinical epigenetics, 18(1).

Wang Y, et al. (2026) Integrative transcriptomic profiling reveals NK cell exhaustion-associated prognostic genes and identifies CSF1 as a key immunoregulatory target in hepatocellular carcinoma. *Biology direct*, 21(1).

Peng Y, et al. (2026) Dissecting Heterogeneity Reveals Functional Subpopulation of Stem Cells From Human Exfoliated Deciduous Teeth. *International dental journal*, 76(1), 104014.

Zhang L, et al. (2026) Deficient extravillous trophoblast invasion caused by impaired sialylation-Siglec-7 interaction contributes to recurrent pregnancy loss. *Cell death & disease*, 17(1).

Zhang Y, et al. (2026) Integrative bioinformatics, single-cell and experimental evidence for a BPA-m6A-apoptosis axis in granulosa cell dysfunction in polycystic ovary syndrome. *Journal of ovarian research*, 19(1).

Tian Z, et al. (2026) Construction of a Prognostic Risk Model for *Helicobacter pylori* Infection in Gastric Cancer Patients and Immunological Analysis. *Cancer reports (Hoboken, N.J.)*, 9(4), e70511.

Zhang J, et al. (2026) Hepatocyte BPGM Induces RET Lactylation and Macrophage Reprogramming to Promote Tumorigenesis in Hepatocellular Carcinoma. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, e18180.

Zhang H, et al. (2026) Tobacco Smoke Exposure From Prenatal To Adolescent Periods Drives IBD Pathogenesis: Dynamic DNA Methylation Signatures Across Lifespan Stages. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(17), e16704.

Winkler M, et al. (2026) Consequences of the perivascular niche remodeling for tumoricidal T-cell trafficking into metastasis of ovarian cancer. *ImmunoHorizons*, 10(2).

Tang S, et al. (2026) SCFAs inhibited NETosis to alleviate lung inflammation in COPD: a potential role for GPR43. *Respiratory research*, 27(1).

Wu C, et al. (2026) Identification and genetic validation of potential therapeutic targets for pulmonary hypertension through multi-omics causal inference. *Medicine*, 105(6), e47525.

Cao F, et al. (2026) Integrative multi-omics analysis reveals gut-skin axis mechanisms and novel therapeutic target GALE in atopic dermatitis. *mSystems*, 11(1), e0140325.

Nie M, et al. (2026) Natural killer cells aggravate neuroinflammation through microglial type I interferon pathway activation after traumatic brain injury. *Journal of neuroinflammation*, 23(1), 52.