

Resource Summary Report

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scater

RRID:SCR_015954

Type: Tool

Proper Citation

scater (RRID:SCR_015954)

Resource Information

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

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Description: Software toolkit for doing various analyses of single-cell RNA-seq gene expression data, with a focus on quality control. This package facilitates pre-processing, quality control, normalization and visualization of scRNA-seq data.

Synonyms: scater (single-cell analysis toolkit for gene expression data in R)

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

Keywords: scRNA-seq, rna, rnaseq, single, cell, analysis, gene, expression, quality, control, preprocessing, normalization, visualization, r, bio.tools

Funding: National Health and Medical Research Council of Australia APP1112681;
European Molecular Biology Laboratory ;
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Oxford Single Cell Biology Consortium

Availability: Free, Available for download

Resource Name: scater

Resource ID: SCR_015954

Alternate IDs: biotools:scater

Alternate URLs: <https://bioconductor.org/packages/scater/>, <https://bio.tools/scater>

License: GPL

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260731T043004+0000

Ratings and Alerts

No rating or validation information has been found for scater.

No alerts have been found for scater.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 173 mentions in open access literature.

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

Huang Y, et al. (2026) Integration of Single-cell and Bulk Transcriptome Analyses Unravels a Macrophage-based Gene Signature for Prognostication and Treatment in Triple-negative Breast Cancer. International journal of medical sciences, 23(1), 253.

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.

Ernst KJ, et al. (2025) A simplified preparation method for single-nucleus RNA-sequencing using long-term frozen brain tumor tissues. Scientific reports, 15(1), 12849.

Azami T, et al. (2025) STAT3 signaling enhances tissue expansion during postimplantation mouse development. Cell reports, 44(4), 115506.

Zhang J, et al. (2025) Single-cell and bulk transcriptome analysis unveils a ligand-receptor-based signature for prognostication and reveals that TREM1 controls the malignant behaviors of hepatocellular carcinoma. Acta biochimica et biophysica Sinica, 57(11), 1847.

Arya A, et al. (2025) Navigating single-cell RNA-sequencing: protocols, tools, databases, and applications. Genomics & informatics, 23(1), 13.

Herpelink T, et al. (2025) A single-cell atlas of the murine limb skeleton integrating the developmental and adult stages. Scientific reports, 15(1), 22514.

Ireland AS, et al. (2025) Basal cell of origin resolves neuroendocrine-tuft lineage plasticity in cancer. Nature, 647(8088), 257.

Shah K, et al. (2025) Spatio-molecular gene expression reflects dorsal anterior cingulate cortex structure and function in the human brain. bioRxiv : the preprint server for biology.

Kuett L, et al. (2025) Distant Metastases of Breast Cancer Resemble Primary Tumors in Cancer Cell Composition but Differ in Immune Cell Phenotypes. *Cancer research*, 85(1), 15.

Rajan P, et al. (2025) p38 blockade reverses the immune suppressive tumor microenvironment in metastatic breast cancer. *Research square*.

Van Nevel S, et al. (2025) Distinct Effects of Biological Treatments on Eosinophils and Neutrophils in Chronic Rhinosinusitis With Nasal Polyp Patients. *Clinical and translational allergy*, 15(12), e70117.

Xiong Z, et al. (2025) scIVNL-seq resolves in vivo single-cell RNA dynamics of immune cells during *Salmonella* infection. *Nature communications*, 16(1), 7937.

Post GA, et al. (2025) Cell type- and species-specific regulation of hepatic lncRNAs by TCDD-activated aryl hydrocarbon receptor. *Scientific reports*, 15(1), 37322.

Rennen S, et al. (2025) Lipid nanoparticles as a tool to dissect dendritic cell maturation pathways. *Cell reports*, 44(8), 116150.

Bastos J, et al. (2025) Monocytes can efficiently replace all brain macrophages and fetal liver monocytes can generate bona fide SALL1+ microglia. *Immunity*, 58(5), 1269.

Oh MS, et al. (2025) Characteristics of a CCL21 Gene-Modified Dendritic Cell Vaccine Utilized for a Clinical Trial in Non-Small Cell Lung Cancer. *Molecular cancer therapeutics*, 24(2), 286.

Billiet L, et al. (2024) ThymoSpheres culture: A model to study human polyclonal unconventional T cells. *European journal of immunology*, 54(12), e2451265.

Gallaccio G, et al. (2024) Protocol to characterize immune cell subpopulations in cerebrospinal fluid of patients with neuroinflammatory diseases using mass cytometry. *STAR protocols*, 5(2), 103038.

Zheng D, et al. (2024) snRNA-seq analysis in multinucleated myogenic FSHD cells identifies heterogeneous FSHD transcriptome signatures associated with embryonic-like program activation and oxidative stress-induced apoptosis. *Human molecular genetics*, 33(3), 284.