

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

scrان

RRID:SCR_016944

Type: Tool

Proper Citation

scrان (RRID:SCR_016944)

Resource Information

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

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Description: Software package for low-level analyses of single-cell RNA-seq data. Used for quality control, data exploration and normalization, cell cycle phase assignment, identification of highly variable and correlated genes, clustering into subpopulations and marker gene detection.

Abbreviations: SCRAN

Synonyms: Single-Cell Rna-seq data ANalysis, SCRAN

Resource Type: data processing software, data analysis software, software application, software resource

Defining Citation: [PMID:27909575](#)

Keywords: low, level, analysis, scRNA-seq, data, normalization, cell, cycle, phase, gene, variable, correlation, cluster, subpopulation, marker, bio.tools

Funding: Cancer Research UK ;
National Health and Medical Research Council of Australia ;
EMBL

Availability: Free, Available for download, Freely available

Resource Name: scrان

Resource ID: SCR_016944

Alternate IDs: biotools:scrان

Alternate URLs: <https://bio.tools/scrان>

License: GPL 3

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260801T042806+0000

Ratings and Alerts

No rating or validation information has been found for scan.

No alerts have been found for scan.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 92 mentions in open access literature.

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

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.

Richman CM, et al. (2025) Carbonic Anhydrase Inhibition Sensitizes Group 3 Medulloblastoma to Radiotherapy. Cancer research, 85(19), 3737.

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

Ji P, et al. (2025) Single-cell delineation of the microbiota-gut-brain axis: Probiotic intervention in Chd8 haploinsufficient mice. Cell genomics, 5(2), 100768.

Yata T, et al. (2025) Contribution of germline and somatic mutations to risk of neuromyelitis optica spectrum disorder. Cell genomics, 5(3), 100776.

Priego N, et al. (2025) TIMP1 Mediates Astrocyte-Dependent Local Immunosuppression in Brain Metastasis Acting on Infiltrating CD8+ T Cells. Cancer discovery, 15(1), 179.

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.

Ali M, et al. (2025) Multi-cohort cerebrospinal fluid proteomics identifies robust molecular signatures across the Alzheimer disease continuum. Neuron, 113(9), 1363.

Zhao H, et al. (2025) Single-Cell Analysis of Posttranslational Modifications Identifies Immunosuppressive Macrophage Subtypes in the HBV-Positive Hepatocellular Carcinoma Microenvironment. Cancer immunology research, 13(8), 1303.

Chandramohan D, et al. (2025) Dual role of Oct4 and Sox2 in controlling the developmental capacity and timing of tissue morphogenesis in the embryonic lineage. *Developmental cell*.

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.

Khetan N, et al. (2024) Single-cell RNA sequencing algorithms underestimate changes in transcriptional noise compared to single-molecule RNA imaging. *Cell reports methods*, 4(12), 100933.

Iyer DP, et al. (2024) mTOR activity paces human blastocyst stage developmental progression. *Cell*, 187(23), 6566.

Jakobsen NA, et al. (2024) Selective advantage of mutant stem cells in human clonal hematopoiesis is associated with attenuated response to inflammation and aging. *Cell stem cell*, 31(8), 1127.

Kwon DI, et al. (2024) Fc-fused IL-7 provides broad antiviral effects against respiratory virus infections through IL-17A-producing pulmonary innate-like T cells. *Cell reports. Medicine*, 5(1), 101362.

Chen Z, et al. (2024) Directly selecting cell-type marker genes for single-cell clustering analyses. *Cell reports methods*, 4(7), 100810.

Yu V, et al. (2024) Differential CpG methylation at Nnat in the early establishment of beta cell heterogeneity. *Diabetologia*, 67(6), 1079.

Cao Y, et al. (2024) Inferring Characteristics of the Tumor Immune Microenvironment of Patients with HNSCC from Single-Cell Transcriptomics of Peripheral Blood. *Cancer research communications*, 4(9), 2335.

Pierre-Ferrer S, et al. (2024) A phosphate transporter in VIPergic neurons of the suprachiasmatic nucleus gates locomotor activity during the light/dark transition in mice. *Cell reports*, 43(5), 114220.

Namoto K, et al. (2024) NIBR-LTSi is a selective LATS kinase inhibitor activating YAP signaling and expanding tissue stem cells in vitro and in vivo. *Cell stem cell*, 31(4), 554.