

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 17, 2026

edgeR

RRID:SCR_012802

Type: Tool

Proper Citation

edgeR (RRID:SCR_012802)

Resource Information

URL: <http://bioconductor.org/packages/edgeR/>

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Description: Bioconductor software package for Empirical analysis of Digital Gene Expression data in R. Used for differential expression analysis of RNA-seq and digital gene expression data with biological replication.

Abbreviations: edgeR

Synonyms: edgeR, empirical analysis of digital gene expression data in R, Empirical analysis of Digital Gene Expression data in R

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

Defining Citation: [PMID:19910308](#), [DOI:10.1093/bioinformatics/btp616](#)

Keywords: empirical, analysis, digital, gene, expression, data, R, RNA-seq data, bio.tools

Funding: Harris and IBS Honours scholarships ;
Independent Research Institutes Infrastructure Support Scheme 361646;
Melbourne International Research Scholarship ;
NHMRC 406657;
Victorian State Government OIS grant

Availability: Free, Available for download, Freely available

Resource Name: edgeR

Resource ID: SCR_012802

Alternate IDs: OMICS_01308, biotools:edger

Alternate URLs: <https://bio.tools/edger>, <https://sources.debian.org/src/r-bioc-edger/>

License: GPL

Record Creation Time: 20220129T080312+0000

Record Last Update: 20260912T195753+0000

Ratings and Alerts

No rating or validation information has been found for edgeR.

No alerts have been found for edgeR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 23868 mentions in open access literature.

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

Sekiguchi N, et al. (2026)

Circ72309 modulates gemcitabine metabolism and gemcitabine sensitivity in pancreatic cancer: Serum Circ72309 levels as a potential predictor of treatment response

. International journal of oncology, 68(3).

Ishihara H, et al. (2026) Non-Clear Cell Renal Cell Carcinoma Has an Immune-Cold Phenotype That Affects Response to Immune Checkpoint Inhibitors. Molecular cancer research : MCR, 24(5), 390.

Zhao Y, et al. (2026) IDH1 Reprograms Nucleotide Metabolism by Inducing Chromatin Remodeling and DHODH Transcription to Drive Chemoresistance in Nasopharyngeal Carcinoma. Cancer research, 86(8), 2004.

Zeng TB, et al. (2026) SETDB1 enables development beyond cleavage stages by extinguishing the MERVL-driven two-cell totipotency transcriptional program in the mouse embryo. eLife, 15.

Liu H, et al. (2026) C9orf72 hexanucleotide repeat RNA drives transcriptional dysregulation through genome-wide DNA:RNA hybrid G-quadruplexes. Neuron, 114(6), 1045.

Molotkova A, et al. (2026) ROME, an Ancient Gene with a Novel Function in Vertebrates, Is a Key Modulator of Embryonal Development and Cancer Metastasis. Cancer research communications, 6(3), 477.

Fukumura K, et al. (2026) Ionizing Radiation Enhances Prognostically Significant Cellular Immunity Programs in the Brain Metastasis Microenvironment. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(11), 2305.

Blackmer-Raynolds L, et al. (2026) Indigenous gut microbes modulate neural cell state and neurodegenerative disease susceptibility. *Cell systems*, 17(2), 101481.

Sajani A, et al. (2026) Heterogeneity and plasticity of the naive CD4+ T cell compartment. *Cell reports*, 45(3), 116980.

Purohit TA, et al. (2026) Genetic loss of CHD1 regulates distinct histone post-translational modifications in the development of castration-resistant prostate cancer. *Neoplasia (New York, N.Y.)*, 73, 101289.

Kim DH, et al. (2026) Tumor Exosomal L1 Cell Adhesion Molecule Promotes Brain Metastasis of Lung Cancer. *Research (Washington, D.C.)*, 9, 1126.

Ferreira S, et al. (2026) Inactivation of CDKN2AARF Promotes p53-Independent Remodeling of the PDAC Tumor Microenvironment. *Cancer research*, 86(13), 3109.

Hayward MK, et al. (2026) Tissue tension fosters macrophage-driven lipid peroxidation-induced DNA damage. *Cancer cell*, 44(6), 1255.

Liu Q, et al. (2026) Structural variation drives praziquantel response and host adaptation in *Schistosoma japonicum*. *iScience*, 29(6), 116118.

Hwang J, et al. (2026) Development of K-CORE: a web-based platform for integrated clinico-genomic analysis. *Life science alliance*, 9(8).

Laforêts F, et al. (2026) Matrix structure and microenvironment dynamics correlate with chemotherapy response in ovarian cancer. *iScience*, 29(3), 114858.

Sinha A, et al. (2026) Astrocytic Regulation of Aberrant Perineuronal Net Formation in *Mecp2*-Null Neocortex. *Journal of neurochemistry*, 170(6), e70503.

Yang J, et al. (2026) Age and sex-dependent tumor microbiome programs shape pancreatic cancer prognosis. *iScience*, 29(7), 116542.

Abdelfattah N, et al. (2026) Male-biased Yap1-Cd276/B7-H3 axis for immune evasion in medulloblastoma. *Cancer cell*, 44(4), 760.

Gorin A, et al. (2026) IFN γ -induced memory in human macrophages is sustained by the durability of cytokine signaling itself. *The Journal of experimental medicine*, 223(4).