

Resource Summary Report

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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, software resource, data processing software, software application

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

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

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

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: 20260803T040613+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 21899 mentions in open access literature.

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

Herbrich S, et al. (2026) TET2-mutant clonal hematopoiesis enhances macrophage antigen presentation and improves immune checkpoint therapy in solid tumors. *Cancer cell*, 44(1), 187.

Pilat DJ, et al. (2026) The gain-of-function TREM2-T96K mutation increases risk for Alzheimer's disease by impairing microglial function. *Neuron*, 114(1), 46.

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*.

Yang M, et al. (2026) Dihydroalterperyleneol from endophytic fungus *Alternaria semiverrucosa* and its antitumour activity uncovered by transcriptome analysis, molecular docking and molecular dynamics simulations. *Molecular medicine reports*, 33(1).

Sinke L, et al. (2026) DNA methylation of genes involved in lipid metabolism drives adiponectin levels and metabolic disease. *Diabetologia*, 69(1), 127.

Choi D, et al. (2026) Bivalent Histone Modifications Orchestrate Temporal Regulation of Glucosinolate Biosynthesis During Wound-Induced Stress Responses in *Arabidopsis*. *Plant, cell & environment*, 49(1), 450.

Lee BR, et al. (2026) Induction of germ cell-like cells from deleted in azoospermia-like enhanced green fluorescent protein gene knock-in chicken somatic cells via transgenic expression of pluripotency and germ cell-specific transcription factors. *Animal bioscience*, 39(1), 250233.

- Maurstad MF, et al. (2026) The green lacewing venom system and the complex mechanisms underlying its evolution. *Molecular biology and evolution*, 43(1).
- Lima Cunha W, et al. (2026) Molecular mechanisms associated with rootstock-scion interactions in rubber trees. *The plant genome*, 19(1), e70147.
- Panda K, et al. (2026) HIV disrupts the lung molecular clock, leading to lung inflammation and features of emphysema. *Communications biology*, 9(1), 11.
- Daniel MM, et al. (2026) Integrative Bioinformatics Reveals Novel Molecular Mechanisms and Therapeutic Targets in Acute Myeloid Leukaemia. *Journal of cellular and molecular medicine*, 30(1), e71007.
- Tam H, et al. (2026) Splenic cDC1 efferocytosis and cross-presentation to CD8 T cells are promoted by GPR34 and lysophosphatidylserine. *The Journal of experimental medicine*, 223(1).
- Ma T, et al. (2026) CircAASS alleviates renal injury and fibrosis by regulating mitochondrial homeostasis in tubular epithelial cells. *Autophagy*, 22(1), 182.
- Zhou LH, et al. (2026) HMGB2 Promotes Cardiomyocyte Proliferation and Heart Regeneration Through MTA2-Driven Metabolic Reprogramming. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(1), e05820.
- Chen J, et al. (2026) Genomic and transcriptomic analysis of yield enhancement mechanism of lipopeptide iturin W by tryptone supplementation. *Microbiology spectrum*, 14(1), e0324725.
- Cai H, et al. (2026) Venenum bufonis and its active constituents alleviate RSV-induced pneumonia in mice by suppressing macrophage infiltration and NLRP3 inflammasome activation. *Virus research*, 363, 199672.
- Kong L, et al. (2026) Kisspeptins inhibit ectopic endometrial cell invasion and angiogenesis by suppressing PI3K/AKT signaling pathway via CREB5 in endometriosis. *International journal of medical sciences*, 23(1), 334.
- Cammarata I, et al. (2026) Treg Susceptibility to Cladribine-Induced Depletion Correlates With Therapy Response in Patients With Multiple Sclerosis. *Neurology(R) neuroimmunology & neuroinflammation*, 13(1), e200521.
- Li Y, et al. (2026) Senkynolide A interrupts TRAF6-HDAC3 interaction to epigenetically suppress c-MYC and attenuate cholestatic liver injury. *Journal of advanced research*, 79, 935.
- Kuks PJM, et al. (2026) Cluster Analysis to Identify Distinct Asthma Phenotypes in the ATLANTIS Cohort. *Allergy*, 81(1), 185.