

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](http://FDI Lab - SciCrunch.org) on Mar 31, 2025

## edgeR

RRID:SCR\_012802

Type: Tool

---

### Proper Citation

edgeR (RRID:SCR\_012802)

---

### Resource Information

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

**Proper Citation:** edgeR (RRID:SCR\_012802)

**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 application, software resource, data processing software

**Defining Citation:** [PMID:19910308](https://pubmed.ncbi.nlm.nih.gov/19910308/), [DOI:10.1093/bioinformatics/btp616](https://doi.org/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:** 20250330T061235+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 18878 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

Wang K, et al. (2025) Exploring the Role of Ccn3 in Type III Cell of Mice Taste Buds. *Journal of neurochemistry*, 169(1), e16291.

Vernié T, et al. (2025) Conservation of symbiotic signaling since the most recent common ancestor of land plants. *Proceedings of the National Academy of Sciences of the United States of America*, 122(1), e2408539121.

Frey Y, et al. (2025) Broad repression of DNA repair genes in senescent cells identified by integration of transcriptomic data. *Nucleic acids research*, 53(1).

Choi Y, et al. (2025) Blood-derived APLP1+ extracellular vesicles are potential biomarkers for the early diagnosis of brain diseases. *Science advances*, 11(1), eado6894.

Wang L, et al. (2025) The molecular mechanism of gemcitabine in inhibiting the HIF-1 $\alpha$ /VEGFB/FGF2/FGFR1 signaling pathway for ovarian cancer treatment. *Discover oncology*, 16(1), 3.

Ramanauskas K, et al. (2025) Rapid detection of RNase-based self-incompatibility in

Lysimachia monelli (Primulaceae). American journal of botany, 112(1), e16449.

Mahmoudian-Hamedani S, et al. (2025) Investigating combined hypoxia and stemness indices for prognostic transcripts in gastric cancer: Machine learning and network analysis approaches. Biochemistry and biophysics reports, 41, 101897.

Zuo Q, et al. (2025) Co-targeting of metabolism using dietary and pharmacologic approaches reduces breast cancer metastatic burden. NPJ breast cancer, 11(1), 3.

Torrente D, et al. (2025) The interaction of tPA with NMDAR1 drives neuroinflammation and neurodegeneration in  $\alpha$ -synuclein-mediated neurotoxicity. Journal of neuroinflammation, 22(1), 8.

Sacchettino L, et al. (2025) Altered microbiome and metabolome profiling in fearful companion dogs: An exploratory study. PloS one, 20(1), e0315374.

Veret D, et al. (2025) Combination of rapamycin and adipose-derived mesenchymal stromal cells enhances therapeutic potential for osteoarthritis. Stem cell research & therapy, 16(1), 9.

Lee SR, et al. (2025) Exercise promotes peripheral glycolysis in skeletal muscle through miR-204 induction via the HIF-1 $\alpha$  pathway. Scientific reports, 15(1), 1487.

Venturini E, et al. (2025) Functional characterization of the DUF1127-containing small protein YjiS of Salmonella Typhimurium. microLife, 6, uqae026.

Biel N, et al. (2025) Reducing Cofilin dosage makes embryos resilient to heat stress. bioRxiv : the preprint server for biology.

Jaumotte JD, et al. (2025) Physiologic and structural characterization of desisobutyryl-ciclesonide, a selective glucocorticoid receptor modulator in newborn rats. PNAS nexus, 4(1), pgae573.

McGregor ER, et al. (2025) Reversal of neuronal tau pathology via adiponectin receptor activation. Communications biology, 8(1), 8.

Zhang Q, et al. (2025) Apoptotic breast cancer cells after chemotherapy induce pro-tumour extracellular vesicles via LAP-competent macrophages. Redox biology, 80, 103485.

Zhang Y, et al. (2025) Missense mutations of GPER1 in breast invasive carcinoma: Exploring gene expression, signal transduction and immune cell infiltration with insights from cellular pharmacology. Biomedical reports, 22(2), 22.

Meng J, et al. (2025) Porcine granulosa cell transcriptomic analyses reveal the differential regulation of lncRNAs and mRNAs in response to all-trans retinoic acid in vitro. Animal bioscience, 38(2), 267.

Zhang MJ, et al. (2025) Oncolytic herpes simplex virus propagates tertiary lymphoid structure formation via CXCL10/CXCR3 to boost antitumor immunity. Cell proliferation, 58(1), e13740.