

Resource Summary Report

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EGSEA

RRID:SCR_015036

Type: Tool

Proper Citation

EGSEA (RRID:SCR_015036)

Resource Information

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

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Description: Method developed for RNA-sequencing data. EGSEA combines results from twelve algorithms and calculates collective gene set scores to improve the biological relevance of the highest ranked gene sets.

Synonyms: Ensemble of Gene Set Enrichment Analyses (EGSEA), Ensemble of Gene Set Enrichment Analyses

Resource Type: software resource, software toolkit, source code

Defining Citation: [PMID:27694195](https://pubmed.ncbi.nlm.nih.gov/27694195/)

Keywords: gene set, rna sequencing, analysis method, r package, bio.tools

Funding: Victorian State Government Operational Infrastructure Support ;
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NHMRC GNT1050661;
NHMRC GNT1045936;
NHMRC GNT1057854;
NHMRC GNT1104924

Availability: Free, Available for download

Resource Name: EGSEA

Resource ID: SCR_015036

Alternate IDs: biotools:egsea

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

License: GPL-2

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260801T191012+0000

Ratings and Alerts

No rating or validation information has been found for EGSEA.

No alerts have been found for EGSEA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 62 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Bastian K, et al. (2025) FUT8 Is a Critical Driver of Prostate Tumour Growth and Can Be Targeted Using Fucosylation Inhibitors. *Cancer medicine*, 14(10), e70959.

Giacomoni J, et al. (2025) Protocol for 3D direct reprogramming of human glia into dopaminergic neurons with gene expression and immunocytochemistry validation. *STAR protocols*, 6(4), 104088.

Monteuuis G, et al. (2025) Vacuolar-type H⁺-ATPase-mediated extra-organellar buffering resolves mitochondrial dysfunction. *Nature communications*, 17(1), 67.

Zamorano M, et al. (2025) Transcriptomic and histological characteristics of innate immune activation in brain parenchyma in a rat model of neonatal intraventricular hemorrhage. *Fluids and barriers of the CNS*, 22(1), 68.

Shehab M, et al. (2024) An IL-17A-centric response to Epstein-Barr virus DNA mediated by dendritic Cell-T cell interactions. *Frontiers in molecular biosciences*, 11, 1243366.

Ioannidis V, et al. (2024) Disrupted extracellular matrix and cell cycle genes in autism-associated Shank3 deficiency are targeted by lithium. *Molecular psychiatry*, 29(3), 704.

Scott MT, et al. (2024) Activating p53 abolishes self-renewal of quiescent leukaemic stem cells in residual CML disease. *Nature communications*, 15(1), 651.

Wang L, et al. (2024) Unbiased discovery of cancer pathways and therapeutics using Pathway Ensemble Tool and Benchmark. *Nature communications*, 15(1), 7288.

Baker BH, et al. (2024) Placental transcriptomic signatures of prenatal and preconceptional maternal stress. *Molecular psychiatry*, 29(4), 1179.

Gilgioni EH, et al. (2024) PTPRK regulates glycolysis and de novo lipogenesis to promote hepatocyte metabolic reprogramming in obesity. *Nature communications*, 15(1), 9522.

Kiousi DE, et al. (2024) Lactobacilli-host interactions inhibit *Staphylococcus aureus* and *Escherichia coli*-induced cell death and invasion in a cellular model of infection. *Frontiers in microbiology*, 15, 1501119.

Peterson KM, et al. (2024) Serum-deprivation response of ARPE-19 cells; expression patterns relevant to age-related macular degeneration. *PloS one*, 19(9), e0293383.

Coles CA, et al. (2024) Benfotiamine improves dystrophic pathology and exercise capacity in mdx mice by reducing inflammation and fibrosis. *Human molecular genetics*, 33(15), 1339.

Hodgson K, et al. (2024) Sialic acid blockade inhibits the metastatic spread of prostate cancer to bone. *EBioMedicine*, 104, 105163.

Farley KO, et al. (2024) CRISPR-Cas9-generated PTCHD1 2489T>G stem cells recapitulate patient phenotype when undergoing neural induction. *HGG advances*, 5(1), 100257.

Richardson KK, et al. (2024) Mitochondrial protein deacetylation by SIRT3 in osteoclasts promotes bone resorption with aging in female mice. *Molecular metabolism*, 88, 102012.

Peth Z, et al. (2023) Acid-base homeostasis orchestrated by NHE1 defines the pancreatic stellate cell phenotype in pancreatic cancer. *JCI insight*, 8(19).

Narayanan D, et al. (2023) Immature Brain Cortical Neurons Have Low Transcriptional Competence to Activate Antiviral Defences and Control RNA Virus Infections. *Journal of innate immunity*, 15(1), 50.

Coldbeck-Shackley RC, et al. (2023) Constitutive expression and distinct properties of IFN-epsilon protect the female reproductive tract from Zika virus infection. *PLoS pathogens*, 19(3), e1010843.

Fear VS, et al. (2023) Gene editing and cardiac disease modelling for the interpretation of genetic variants of uncertain significance in congenital heart disease. *Stem cell research & therapy*, 14(1), 345.