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/

Proper Citation: EGSEA (RRID:SCR_015036)

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 toolkit, software resource, source code

Defining Citation: PMID:27694195

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

Funding: Victorian State Government Operational Infrastructure Support ;
Australian Government NHMRC IRIISS ;
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: 20260804T043543+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 ASWG .

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.

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.

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

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.