Resource Summary Report

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clusterProfiler

RRID:SCR_016884

Type: Tool

Proper Citation

clusterProfiler (RRID:SCR_016884)

Resource Information

URL: http://bioconductor.org/packages/release/bioc/html/clusterProfiler.html

Proper Citation: clusterProfiler (RRID:SCR_016884)

Description: Software R package for statistical analysis and visualization of functional

profiles for genes and gene clusters.

Synonyms: Cluster Profiler

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

processing software, data visualization software

Defining Citation: PMID:22455463

Keywords: data, statistical, analysis, visualization, gene, cluster, bio.tools

Funding: National 973 Projects of China; 2007 Chang-Jiang Scholars Program;

National Natural Science Foundation of China; Guangdong Natural Science Research Grant;

Fundamental Research Funds for the Central Universities

Availability: Free, Available for download, Freely available

Resource Name: clusterProfiler

Resource ID: SCR_016884

Alternate IDs: biotools:clusterprofiler

Alternate URLs: https://github.com/GuangchuangYu/clusterProfiler, https://guangchuangyu.github.io/software/clusterProfiler/, https://bio.tools/clusterprofiler

License: Artistic-2.0

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250424T065451+0000

Ratings and Alerts

No rating or validation information has been found for clusterProfiler.

No alerts have been found for clusterProfiler.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7341 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

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

Soudy M, et al. (2025) Sex-dependent molecular landscape of Alzheimer's disease revealed by large-scale single-cell transcriptomics. Alzheimer's & dementia: the journal of the Alzheimer's Association, 21(2), e14476.

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.

Deng L, et al. (2025) Transcriptome analysis revealed SMURF2 as a prognostic biomarker for oral cancer. Journal of applied genetics, 66(1), 155.

Li G, et al. (2025) Single-cell transcriptomic profiling of heart reveals ANGPTL4 linking fibroblasts and angiogenesis in heart failure with preserved ejection fraction. Journal of advanced research, 68, 215.

Gui A, et al. (2025) Protein lactylation within the nucleus independently predicts the prognosis of non?specific triple?negative breast cancer. Oncology letters, 29(2), 72.

Liu S, et al. (2025) CEACAM5 exacerbates asthma by inducing ferroptosis and autophagy in airway epithelial cells through the JAK/STAT6-dependent pathway. Redox report : communications in free radical research, 30(1), 2444755.

Kiesworo K, et al. (2025) Nicotinamide mononucleotide restores impaired metabolism, endothelial cell proliferation and angiogenesis in old sedentary male mice. iScience, 28(1), 111656.

Kour D, et al. (2025) Identification of novel Kv1.3 channel-interacting proteins using proximity labelling in T-cells. bioRxiv: the preprint server for biology.

Li M, et al. (2025) A pan-cancer analysis: predictive role of ZNF32 in cancer prognosis and immunotherapy response. Discover oncology, 16(1), 94.

Wang Q, et al. (2025) Single-cell analyses of intestinal epithelium reveal the dysregulation of gut immune microenvironment in systemic lupus erythematosus. Journal of translational medicine, 23(1), 118.

Drobek A, et al. (2025) The TLR7/9 adaptors TASL and TASL2 mediate IRF5-dependent antiviral responses and autoimmunity in mouse. Nature communications, 16(1), 967.

Greetatorn T, et al. (2025) Differential responses of Bradyrhizobium sp. SUTN9-2 to plant extracts and implications for endophytic interactions within different host plants. Scientific reports, 15(1), 3154.

Tu W, et al. (2025) Investigation of the Molecular Mechanism of Asthma in Meishan Pigs Using Multi-Omics Analysis. Animals: an open access journal from MDPI, 15(2).

Han X, et al. (2025) Deficiency of FABP7 Triggers Premature Neural Differentiation in Idiopathic Normocephalic Autism Organoids. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(2), e2406849.

Li C, et al. (2025) CoronaVac-induced antibodies that facilitate Fc-mediated neutrophil phagocytosis track with COVID-19 disease resolution. Emerging microbes & infections, 14(1), 2434567.

Fang CG, et al. (2025) Cry1 resistance in a CRISPR/Cas9-mediated HaCad1 gene knockout strain of the Australian cotton bollworm Helicoverpa armigera conferta (Lepidoptera: Noctuidae). Pest management science, 81(2), 959.

Qiu R, et al. (2025) AAV2-PDE6B restores retinal structure and function in the retinal degeneration 10 mouse model of retinitis pigmentosa by promoting phototransduction and inhibiting apoptosis. Neural regeneration research, 20(8), 2408.

Kim MW, et al. (2025) Endogenous self-peptides guard immune privilege of the central nervous system. Nature, 637(8044), 176.

Bano S, et al. (2025) Prolonged exposure to insulin might cause epigenetic alteration leading to insulin resistance. FEBS open bio, 15(1), 81.