

Resource Summary Report

Generated by [NIF](#) on Sep 8, 2026

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, data processing software, data visualization software, software application, software resource

Defining Citation: [PMID:22455463](#)

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

Funding: 2007 Chang-Jiang Scholars Program ;
Fundamental Research Funds for the Central Universities ;
Guangdong Natural Science Research Grant ;
National 973 Projects of China ;
National Natural Science Foundation of China

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: 20260905T132815+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 13465 mentions in open access literature.

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

He P, et al. (2027) Key molecular networks underlying retinol's biphasic effects on cell proliferation through multi-omics integrative analysis using genome-scale metabolic modeling. Synthetic and systems biotechnology, 15, 43.

Zhou L, et al. (2026) p21-Positive Senescent Stromal Cells Promote Prostate Cancer Immune Suppression and Progression That Can Be Reversed by Senolytic Therapy. Cancer discovery, 16(3), 571.

Chen CY, et al. (2026) Transcriptome-guided development of a fibrosis-reversal compound reduces skin scarring and allows regeneration via mitochondrial uncoupling. Cell reports. Medicine, 7(5), 102821.

Avolio M, et al. (2026) The Molecular and Functional Landscape of Resistance to FOLFIRI Chemotherapy in Metastatic Colorectal Cancer. Cancer discovery, 16(2), 270.

Yu X, et al. (2026) miR-339-5p impairs myogenic proliferation and differentiation by repressing contractile gene programs in skeletal muscle. American journal of physiology. Cell physiology, 331(2), C425.

Hacioglu N, et al. (2026) Hypoxia-driven transcriptional activation of MIR100HG by HIF-1 α contributes to adaptive gene regulation in hepatocellular carcinoma. Functional & integrative genomics, 26(1).

Delfini M, et al. (2026) JUN Specifies the Local Differentiation and Maintenance of Pro-tumoral Monocyte-Derived Macrophages. Cancer research.

Suryavanshi S, et al. (2026) Allelic Variation at 9p21.3 Orchestrates Widespread RNA Splicing Shifts Governing Vascular Smooth Muscle Cell Plasticity. bioRxiv : the preprint server for biology.

Zhou Z, et al. (2026) Using an Unbiased Coexpression Network to Reveal Cross-Talking Pathways of Phosphoinositide-3-Kinase Regulatory Subunit 1 in Skin Aging and Rejuvenation. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(2), e71466.

Lin CY, et al. (2026) Combined targeting poly (ADP-ribose) polymerase and receptor tyrosine kinase inhibits ovarian clear cell carcinoma progression through disrupted ribosome biogenesis. *Journal of molecular medicine (Berlin, Germany)*, 104(1), 33.

Chaves GS, et al. (2026) Hypoxia Promotes an Adrenergic to Mesenchymal Transcriptional Program Transition in Neuroblastoma. *Clinical and translational science*, 19(3), e70508.

Yogo A, et al. (2026) Spatial Transcriptomics Reveals Location-Specific Tumor Cell Subtypes and Signaling within Multifocal Small Intestinal Neuroendocrine Tumors. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(10), 2098.

Wang J, et al. (2026) The phosphatase DUSP2 constrains lymphoid remodeling and immunotherapy response in lung squamous carcinoma. *Molecular therapy : the journal of the American Society of Gene Therapy*, 34(7), 4279.

Valizadeh A, et al. (2026) Combining DNA methylation features and clinical characteristics predicts ketamine treatment response for PTSD. *iScience*, 29(1), 114445.

Facchinetti F, et al. (2026) Recurrent Resistance Mutations to Lirafugratinib Inform Treatment Sequencing in FGFR2-Driven Tumors. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(8), 1574.

Menezes-Silva L, et al. (2026) Hormonal rewiring of immunity during dietary restriction ensures host defense and systemic glucose conservation. *Immunity*, 59(3), 700.

Li G, et al. (2026) Spatial Multiomics Analyses Reveal That Diabetes Promotes Pancreatic Cancer Progression by Stimulating Cholesterol-Induced Neutrophil Extracellular Trap Formation. *Cancer research*, 86(10), 2327.

Stoiber S, et al. (2026) [18F]FDG PET/CT multiomics identifies Hedgehog-driven HPV-negative head and neck squamous cell carcinoma. *Molecular cancer*, 25(1).

Sævarsson T, et al. (2026) Enhanced IFN γ response in dedifferentiated melanoma cells is due to chromatin remodeling as revealed by ATAC-seq. *Cell communication and signaling : CCS*, 24(1).

Lung BC, et al. (2026) Patient-derived organoid xenografts model esophageal cancer cachexia and enable assessment of anti-inflammatory drug repositioning. *iScience*, 29(2), 114638.