

# Resource Summary Report

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## clusterProfiler

RRID:SCR\_016884

Type: Tool

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### Proper Citation

clusterProfiler (RRID:SCR\_016884)

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### 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:** software application, data analysis software, software resource, 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:** 20260729T044428+0000

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## Ratings and Alerts

No rating or validation information has been found for clusterProfiler.

No alerts have been found for clusterProfiler.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 10762 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [nidm-terms](#).

Safari M, et al. (2026) Combined HDAC and eIF4A inhibition: A novel epigenetic therapy for pancreatic ductal adenocarcinoma. Drug resistance updates : reviews and commentaries in antimicrobial and anticancer chemotherapy, 84, 101312.

Ware SA, et al. (2026) Normal cardiac lymphatics and their mimics. American journal of physiology. Heart and circulatory physiology, 330(1), H170.

Nitsch S, et al. (2026) H4K16 acylations destabilize chromatin architecture and facilitate transcriptional response during metabolic perturbations. Molecular cell, 86(1), 24.

Liang Y, et al. (2026) SLC39A10 drives M2 macrophage polarization and gastric cancer progression through the MAPK14(p38??) pathway. iScience, 29(1), 114400.

Huang X, et al. (2026) Integrin/CD44-targeted liposomes remodel the pulmonary microenvironment to alleviate acute exacerbation of pulmonary fibrosis. Journal of controlled release : official journal of the Controlled Release Society, 389, 114427.

Lu G, et al. (2026) In vivo detection of immune responses via cytokine activity labeling. Cell.

Xu Y, et al. (2026) From degraded to deciphered: Applying ATAC-seq to forensic molecular diagnosis under degradation conditions. Forensic science international, 379, 112789.

Allen AM, et al. (2026) Differential neuronal survival defines a novel axis of sexual dimorphism in the Drosophila brain. Cell genomics, 101125.

Chen Q, et al. (2026) SAMD4A inhibits abdominal aortic aneurysm development and VSMC phenotypic transformation through targeting KDM2B. Journal of advanced research, 79, 223.

Zhang J, et al. (2026) Etiology of Iridocorneal Endothelial Syndrome: Viral Infection and Immune Suppression. *Cornea*, 45(2), 196.

Cognetti DM, et al. (2026) Safety and Efficacy Findings From a Phase Ib/II Study of ASP-1929 Photoimmunotherapy With Pembrolizumab in Recurrent and/or Metastatic Head and Neck Squamous Cell Carcinoma. *Head & neck*, 48(1), 160.

Gao Y, et al. (2026) Altered Inflammatory Signature in a C9ORF72 -ALS iPSC-Derived Motor Neuron and Microglia Coculture Model. *Glia*, 74(1), e70084.

Yan X, et al. (2026) Targeting LOXL1-expressing Hepatic Stellate Cell Inhibits Fibrogenesis and Sinusoid Angiogenesis via LOXL1/RUNX1/VEGFA Axis During Progression of Liver Fibrosis. *Cellular and molecular gastroenterology and hepatology*, 20(2), 101637.

Lv L, et al. (2026) Zinc finger protein 514 promotes esophageal cancer progression by enhancing cell proliferation, migration and invasion. *Molecular medicine reports*, 33(1).

Chen S, et al. (2026) Single-Cell and Machine Learning Analysis Reveal Novel Inflammatory Macrophage Subtypes and Biomarkers in Periodontitis. *International dental journal*, 76(1), 103983.

Xie H, et al. (2026) Ubc9-Mediated SUMOylation of RPL3, an Unappreciated Mechanism against Hepatocyte Senescence by Repressing the DHX9-p16 Axis. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(1), e10240.

Zhao Z, et al. (2026) Dietary Bazhen San solid-state fermentation product improves laying performance, antioxidant capacity, and ovarian function in laying hens during the late laying period. *Poultry science*, 105(1), 106193.

Bi R, et al. (2026) Integrin inhibition facilitates fibrocartilaginous transformation in connective tissue in osteoarthritis. *Science advances*, 12(1), eady4112.

Ma WH, et al. (2026) Targeting PTPN13 with 11-amino-acid peptides of C-terminal APC prevents immune evasion of colorectal cancer. *Cell research*, 36(1), 72.

Hu YM, et al. (2026) Elevated Tumor-Associated Androgen Receptor Activity Correlates with Poor Immune Infiltration and Immunotherapy Response across Cancer Types. *Cancer research communications*, 6(1), 17.