

Resource Summary Report

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gProfiler2

RRID:SCR_018190

Type: Tool

Proper Citation

gProfiler2 (RRID:SCR_018190)

Resource Information

URL: <https://biit.cs.ut.ee/gprofiler/page/r>

Proper Citation: gProfiler2 (RRID:SCR_018190)

Description: Software R interface to g:Profiler. Uses publicly available APIs of g:Profiler web tool which ensures that results from all of interfaces are consistent. Used for gene list functional enrichment analysis and namespace conversion. gprofiler2 package supports all the same organisms, namespaces and data sources as the web tool.

Synonyms: gprofiler2

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

Defining Citation: [PMID:31066453](#)

Keywords: Gene list, functional enrichment analysis, namespace conversion, data, analysis

Funding: Estonian Research Council grants ;
European Regional Development Fund for CoE of Estonian ICT research EXCITE projects

Availability: Free, Available for download, Freely available

Resource Name: gProfiler2

Resource ID: SCR_018190

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260801T042813+0000

Ratings and Alerts

No rating or validation information has been found for gProfiler2.

No alerts have been found for gProfiler2.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 53 mentions in open access literature.

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

Dordevic N, et al. (2025) Extensive modulation of the circulating blood proteome by hormonal contraceptive use across two population studies. *Communications medicine*, 5(1), 131.

Lin RJ, et al. (2025) Cohort-level clinical trajectory and molecular landscape of idiopathic subglottic stenosis for precision laryngology-a study of the Canadian Airways Research (CARE) group. *EBioMedicine*, 114, 105629.

Pellegrin C, et al. (2025) The SUBventral-Gland Regulator (SUGR-1) of nematode virulence. *Proceedings of the National Academy of Sciences of the United States of America*, 122(11), e2415861122.

Gao Y, et al. (2025) Continuous cell-type diversification in mouse visual cortex development. *Nature*, 647(8088), 127.

Yim KM, et al. (2025) Cell-type-specific dysregulation of gene expression due to Chd8 haploinsufficiency during mouse cortical development. *Cell genomics*, 100986.

Graham AC, et al. (2025) Human longevity and Alzheimer's disease variants act via microglia and oligodendrocyte gene networks. *Brain : a journal of neurology*, 148(3), 969.

Conte C, et al. (2025) Sphingomyelin regulates the transcriptional machinery in nuclear lipid microdomains. *Communications biology*, 8(1), 1303.

Piron A, et al. (2025) Identification of novel type 1 and type 2 diabetes genes by co-localization of human islet eQTL and GWAS variants with colocRedRibbon. *Cell genomics*, 101004.

Littler S, et al. (2025) Targeting SUMOylation in ovarian cancer: Sensitivity, resistance, and the role of MYC. *iScience*, 28(6), 112555.

Migliaccio G, et al. (2024) Methylation and transcriptomic profiling reveals short term and long term regulatory responses in polarized macrophages. *Computational and structural biotechnology journal*, 25, 143.

Roy BG, et al. (2024) A single viral amino acid shapes the root system architecture of a plant host upon virus infection. *BMC microbiology*, 24(1), 267.

Reinhard J, et al. (2024) Neural extracellular matrix regulates visual sensory motor integration. *iScience*, 27(2), 108846.

Jones EF, et al. (2024) Long-read RNA sequencing identifies region- and sex-specific C57BL/6J mouse brain mRNA isoform expression and usage. *bioRxiv : the preprint server for biology*.

Littleton SH, et al. (2024) Variant-to-function analysis of the childhood obesity chr12q13 locus implicates rs7132908 as a causal variant within the 3' UTR of FAIM2. *Cell genomics*, 4(5), 100556.

Puvogel S, et al. (2024) Single-Nucleus RNA-Seq Characterizes the Cell Types Along the Neuronal Lineage in the Adult Human Subependymal Zone and Reveals Reduced Oligodendrocyte Progenitor Abundance with Age. *eNeuro*, 11(3).

Ali N, et al. (2024) 9S1R nullomer peptide induces mitochondrial pathology, metabolic suppression, and enhanced immune cell infiltration, in triple-negative breast cancer mouse model. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 170, 115997.

Limone F, et al. (2024) Single-nucleus sequencing reveals enriched expression of genetic risk factors in extratelencephalic neurons sensitive to degeneration in ALS. *Nature aging*, 4(7), 984.

Saez-Atienzar S, et al. (2024) Mechanism-free repurposing of drugs for C9orf72-related ALS/FTD using large-scale genomic data. *Cell genomics*, 4(11), 100679.

Jang E, et al. (2024) Bach2 repression of CD36 regulates lipid-metabolism-linked effector functions in follicular B cells. *Cell reports*, 43(11), 114878.

Newsham I, et al. (2024) Early detection and diagnosis of cancer with interpretable machine learning to uncover cancer-specific DNA methylation patterns. *Biology methods & protocols*, 9(1), bpae028.