

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

Gene Ontology

RRID:SCR_002811

Type: Tool

Proper Citation

Gene Ontology (RRID:SCR_002811)

Resource Information

URL: <http://www.geneontology.org/>

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Description: Computable knowledge regarding functions of genes and gene products. GO resources include biomedical ontologies that cover molecular domains of all life forms as well as extensive compilations of gene product annotations to these ontologies that provide largely species-neutral, comprehensive statements about what gene products do. Used to standardize representation of gene and gene product attributes across species and databases.

Abbreviations: GO

Synonyms: the Gene Ontology, GO, Gene Ontology Resource, Gene Ontology

Resource Type: knowledge environment resource, data or information resource, organization portal, project portal, consortium, portal

Defining Citation: [PMID:23161678](#), [PMID:10802651](#)

Keywords: gene, product, annotation, molecular, function, cellular, biological, role, database, query, obo, gold standard, bio.tools, FASEB list

Funding: European Union QLRI-CT-2001-0098;
European Union QLRI-CT-2001-00015;
NHGRI P41 HG002273

Availability: Free, Freely available, Available for download

Resource Name: Gene Ontology

Resource ID: SCR_002811

Alternate IDs: biotools:go, OMICS_02278, nif-0000-02915

Alternate URLs: <http://bioportal.bioontology.org/ontologies/GO>, <https://bio.tools/go>

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260729T044032+0000

Ratings and Alerts

No rating or validation information has been found for Gene Ontology.

No alerts have been found for Gene Ontology.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10623 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Li H, et al. (2026) PDZRN4 suppresses lung adenocarcinoma progression via inhibiting ubiquitin-mediated HIF-1A degradation. *Oncogene*, 45(4), 577.

Chen D, et al. (2026) Spatially Resolved Multiomics Reveals Metabolic Remodeling and Autophagy Activation in Adamantinomatous Craniopharyngiomas. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), e16965.

Kusano K, et al. (2026) Metabolic Syndrome Develops Cardia Cancer via Nuclear Factor-E2-related Factor 2-Programmed Death-Ligand 1 Signaling. *Cellular and molecular gastroenterology and hepatology*, 20(1), 101629.

Zhang L, et al. (2026) Mechanisms by which sevoflurane affects cognitive function in aged marmosets and mice: up-regulation of FKBP5 expression in brain microglia. *Medical gas research*, 16(1), 19.

Liu Z, et al. (2026) The CpxR response regulator mediates the virulence of *Klebsiella pneumoniae* by regulating the expression of virulence-associated genes. *Microbiology spectrum*, 14(1), e0292825.

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).

Li Z, et al. (2026) Unraveling the anti-cancer potential of procyanidin B2 from grape seeds in gastric cancer through a multi-omics approach with emphasis on ROS and ferroptosis. *Translational oncology*, 64, 102642.

Shao Q, et al. (2026) CACNB1 alleviates mepivacaine-induced myocardial ischemia/reperfusion injury by promoting Nrf2 nuclear translocation. *Molecular medicine*

reports, 33(2).

Huo Y, et al. (2026) Small extracellular vesicles derived from hair follicle neural crest stem cells enhance perineurial cell proliferation and migration via the TGF- β /SMAD/HAS2 pathway. *Neural regeneration research*, 21(5), 2060.

Kukoly LM, et al. (2026) Sex-specific functional evolution of Dmrt1 in African clawed frogs (*Xenopus*), and the importance of genetic tipping points in developmental biology. *PLoS genetics*, 22(1), e1011992.

Li J, et al. (2026) tRNA m1A modification is essential for gut homeostasis and function of group 3 innate lymphoid cells. *Cell discovery*, 12(1), 1.

Lv X, et al. (2026) *Blautia coccoides*-derived metabolite trimethylamine-N-oxide exacerbates Alzheimer's disease progression via targeting HIF1 α signaling. *Gut microbes*, 18(1), 2605768.

Li Y, et al. (2026) PLIN5 deficiency ameliorates metabolic dysfunction-associated fatty liver disease by inhibiting ferroptosis. *Molecular medicine reports*, 33(1).

Jiang M, et al. (2026) SIRT6-Mediated Regulation of TFAM: A Central Mechanism Connecting Nuclear and Mitochondrial Transcriptional Processes and Mitophagy. *International journal of biological sciences*, 22(1), 178.

Xin Q, et al. (2026) Novel miR-290 regulates melanogenesis in Liancheng white ducks via the PI3K/AKT signaling pathway. *Poultry science*, 105(1), 106216.

Li X, et al. (2026) Coinfection with fowl adenovirus serotypes 1 and 4 (FAdV-1 and -4) enhances FAdV-4 replication through FAdV-1-mediated upregulation of HSPA2 expression. *Virulence*, 17(1), 2605751.

Bendre SV, et al. (2026) Cholesterol efflux protein, ABCA1, supports anticancer functions of myeloid immune cells. *Science advances*, 12(1), eadx5490.

Jiang M, et al. (2025) The telomere-to-telomere gap-free reference genome and taxonomic reassessment of *Siniperca roulei*. *GigaScience*, 14.

D'Ignazio L, et al. (2025) A hexamer tandem repeat RNA embedded within an SVA retrotransposon drives R-loop formation and neurodegeneration. *Cell reports*, 44(7), 115812.

Grätz C, et al. (2025) Extracellular vesicle-associated transcriptomic and proteomic biomarkers show in vitro potential for vandetanib treatment monitoring in anaplastic thyroid cancer. *Scientific reports*, 15(1), 32464.