Resource Summary Report

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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: consortium, data or information resource, knowledge environment resource, organization portal, portal, project 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-2001-00015;
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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: 20260919T195005+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 12993 mentions in open access literature.

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

Bloomfield M, et al. (2026) Cell and Nuclear Size Is Associated with Chromosomal Instability and Tumorigenicity in Cancer Cells That Undergo Whole Genome Doubling. Cancer research, 86(9), 2126.

Tao Y, et al. (2026) TENT5A Maintains MYC mRNA Stability to Enhance Osteosarcoma Stemness. Cancer research, 86(9), 2161.

Abd El-Salam M, et al. (2026) Synergistic effects through targeting the PI3K and IGFR pathways in treating lung cancer carrying activation alterations along the PI3K pathway. Translational oncology, 67, 102753.

Bakhmet EI, et al. (2026) PCBP1 orchestrates amino acid metabolism burst during the naïve-to-primed pluripotency transition. Stem cell reports, 21(7), 102950.

Reavis HD, et al. (2026) Alprazolam Reduces Inflammatory Cytokine Production in Pancreatic Cancer-Associated Fibroblasts. Cancer research communications, 6(5), 1048.

de Blas A, et al. (2026) Enhancing Proteasome Activity in T Cells Alleviates Exhaustion and Improves Antitumor Immunity. Cancer research, 86(12), 2896.

Adhikary U, et al. (2026) Cancer Susceptibility to Stapled Oncolytic Peptides Is Dictated by Membrane Cholesterol and Inflammatory Signaling. Cancer research, 86(11), 2810.

Pasbola K, et al. (2026) Transcriptome profiling reveals the role of XIST/miR-335-5p regulatory axis as a crucial mediator of chemoresistance in esophageal cancer by influencing EMT and Ferroptosis. Functional & integrative genomics, 26(1).

He G, et al. (2026) Vesicle trafficking 1 in breast cancer tissue and serum orchestrates metastatic progression and an immunosuppressive microenvironment. International immunopharmacology, 178, 116564.

Roger E, et al. (2026) ATM Deficiency Induces TGF?-Mediated Stromal Programming in Pancreatic Cancer. Cancer research, 86(14), 3412.

Yekedüz E, et al. (2026) Integrative Clinical and Molecular Evaluation of Renal Cell Carcinoma with Merlin Protein Deficiency and Biallelic Loss of NF2. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(6), 1169.

Jiang X, et al. (2026) USP20-Driven Cholesterol Metabolism Links Inflammatory Signaling to Malignancy and Stromal Coevolution in Pancreatic Cancer. Cancer research, 86(3), 712.

Liu A, et al. (2026) Soluble Uric Acid Drives CD8+ T-cell Exhaustion by Inducing KSR1-Mediated MAPK Hyperactivation. Cancer research, 86(14), 3459.

Xie T, et al. (2026) Region-Resolved Integrative Multi-Omic Characterization Reveals Diverse Tumor and Microenvironment Features of Pituitary Neuroendocrine Tumors. Molecular & cellular proteomics : MCP, 25(6), 101583.

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.

Bai G, et al. (2026) LARS promotes osteosarcoma proliferation through leucine-dependent PRIM2 translation and DNA replication activation. Journal of experimental & clinical cancer research : CR, 45(1).

Do KV, et al. (2026) Molecular remodeling of cancer-associated fibroblasts in breast cancer patients receiving anti-PD-1 immunotherapy. Frontiers in oncology, 16, 1754311.

Jiang YY, et al. (2026) Ze-qi Decoction Inhibits Neutrophil Extracellular Trap Formation to Suppress the Progression and Metastasis of Non-Small Cell Lung Cancer. Integrative cancer therapies, 25, 15347354261420750.

Belanger K, et al. (2026) Cancer-Associated Fibroblasts Promote Epithelial-Mesenchymal Transition and Classical to Basal Subtype Shift in Pancreatic Cancer. Cancer research, 86(14), 3604.

Altendorf L, et al. (2026) Molecular changes during AT/RT progression associated with epithelial-mesenchymal transition and extracellular matrix changes. Acta neuropathologica, 152(1).