Resource Summary Report

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Gene Expression Omnibus (GEO)

RRID:SCR_005012
Type: Tool

Proper Citation

Gene Expression Omnibus (GEO) (RRID:SCR_005012)

Resource Information

URL: https://www.ncbi.nlm.nih.gov/geo/

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Description: Functional genomics data repository supporting MIAME-compliant data submissions. Includes microarray-based experiments measuring the abundance of mRNA, genomic DNA, and protein molecules, as well as non-array-based technologies such as serial analysis of gene expression (SAGE) and mass spectrometry proteomic technology. Array- and sequence-based data are accepted. Collection of curated gene expression DataSets, as well as original Series and Platform records. The database can be searched using keywords, organism, DataSet type and authors. DataSet records contain additional resources including cluster tools and differential expression queries.

Abbreviations: GEO

Synonyms: Gene Expression Omnibus (GEO), Entrez GEO DataSets, Gene Expression Data Sets, Gene Expression Omnibus, GEO, NCBI GEO DataSets, GEO DataSets, Gene Expression Omnibus DataSets

Resource Type: data repository, service resource, database, storage service resource, data or information resource

Defining Citation: PMID:23193258, PMID:21097893, PMID:18940857, PMID:17160034, PMID:17099226, PMID:16939800, PMID:16888359, PMID:15608262, PMID:11752295

Keywords: gold standard, genomics, data, repository, microarray, mRNA, DNA, protein, analysis, SAGE, mass spectrometry, dataset

Funding: National Library of Medicine

Resource Name: Gene Expression Omnibus (GEO)

Resource ID: SCR_005012

Alternate IDs: r3d100010283, nif-0000-00142, nlx_96903, OMICS_01030, SCR_007303

Alternate URLs: http://www.ncbi.nlm.nih.gov/sites/entrez?db=gds, http://www.ncbi.nlm.nih.gov/geo/, https://doi.org/10.17616/R33P44

Old URLs: http://www.ncbi.nlm.nih.gov/gds

Record Creation Time: 20220129T080227+0000

Record Last Update: 20260817T040359+0000

Ratings and Alerts

No rating or validation information has been found for Gene Expression Omnibus (GEO).

No alerts have been found for Gene Expression Omnibus (GEO).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 14348 mentions in open access literature.

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

Sambanthamoorthy S, et al. (2026) The Presence of CD11c+ B Cells with Potent Effector Memory Phenotype in Lung Adenocarcinoma Correlates with Overall Patient Survival. Cancer immunology research, 14(5), 811.

Wang HC, et al. (2026) Immunotherapy Response Predictive Score Based on Tumor Microenvironment Profiles for Predicting Immunotherapy Outcomes in Advanced Head and Neck Cancer. Technology in cancer research & treatment, 25, 15330338251411026.

Lan L, et al. (2026) A Jagged1-regulated hybrid-EMT state identifies pancreatic cancer stem cells. Cell reports, 45(2), 116909.

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.

Philbrook P, et al. (2026) Medium-Chain Fatty Acid Receptor GPR84 Modulates Cytotoxic CD8 T-cell Antitumor Immunity through Metabolic Reprogramming. Cancer immunology research, 14(4), 640.

Cao B, et al. (2026) CGPA: A Multicontext Cancer Gene Prognosis Atlas. Molecular cancer research : MCR, 24(3), 188.

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.

Kobayashi H, et al. (2026) Netrin-1 Promotes Pancreatic Tumorigenesis and Innervation through NEO1. Cancer research, 86(8), 1883.

Singh D, et al. (2026) Antibody-Mediated Targeting of Secretory Protein SCUBE3 Suppresses Cancer Progression by Inhibiting Oncogenic Signaling and Inducing Antitumor Immunity. Cancer research, 86(5), 1252.

Jeong M, et al. (2026) Mitochondrial AK3 inhibits nuclear ??-catenin localization and its activation through enhancing mitochondrial activity. Cell death & disease, 17(1).

Friske JD, et al. (2026) A Conserved Enhancer Locus in Extrachromosomal DNA and Homogeneously Staining Regions Activates MYC Transcription in Group 3 Medulloblastoma. Cancer research, 86(13), 3160.

Rom??n-Trufero M, et al. (2026) A Novel Potent and Selective GCN2 Inhibitor, APL-4098, Has Antileukemic Activity through Dysregulation of Mitochondrial Function. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(9), 1846.

Monti M, et al. (2026) Integrating interferon gamma receptor pathways, antigenicity, and immune contexture as predictors of immunotherapeutic strategies for mucosal melanomas. Journal for immunotherapy of cancer, 14(3).

Wu X, et al. (2026) Locus-Specific Human Endogenous Retrovirus ERVK18 Expression Indicates an Inflamed Microenvironment and Favorable Immunotherapy Outcome in Small Cell Lung Cancer. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(11), 2214.

Zhu Y, et al. (2026) Multi-omics exploration of hypoxia in gastric cancer. World journal of surgical oncology, 24(1).

Zhou Z, et al. (2026) TWIST1 mediated transcriptional activation of SPON2 drives colorectal cancer peritoneal metastasis through stromal cell signaling network. Oncogene, 45(17), 1613.

Gautier M, et al. (2026) A regulatory circuitry driving a noradrenergic to mesenchymal transition highlights YAP/TAZ as critical players in neuroblastoma plasticity. Cell reports, 45(5), 117351.

Li S, et al. (2026) PRECISE: A Prognostic Thyrocyte-Derived Gene Signature for Papillary Thyroid Carcinoma. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(13), 2667.

Vuong TT, et al. (2026) DNA Methyltransferase Inhibition Prevents Platinum-Induced Ovarian Cancer Stem Cell Enrichment. Cancer research communications, 6(7), 1721.

Kobayashi H, et al. (2026) A self-amplifying nerve-fibroblast circuit drives colorectal cancer progression. Cancer cell.