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), Gene Expression Omnibus, GEO, NCBI GEO DataSets, Gene Expression Omnibus DataSets, GEO DataSets, Gene Expression Data Sets, Entrez GEO DataSets

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

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 Agency: National Library of Medicine
**Availability:** Free, Freely available

**Resource Name:** Gene Expression Omnibus (GEO)

**Resource ID:** SCR_005012

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


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

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### 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).

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### Data and Source Information

**Source:** SciCrunch Registry

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### Usage and Citation Metrics

We found 14015 mentions in open access literature.

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

Turan T, et al. (2023) iBRIDGE: A Data Integration Method to Identify Inflamed Tumors from Single-cell RNA-Seq Data and Differentiate Cell Type-Specific Markers of Immune-Cell Infiltration. Cancer immunology research, 11(6), 732.


Ding N, et al. (2023) A Tumor-suppressive Molecular Axis EP300/circRERE/miR-6837-3p/MAVS Activates Type I IFN Pathway and Antitumor Immunity to Suppress Colorectal...


Li X, et al. (2023) Immunogenicity of small-cell lung cancer associates with STING pathway activation and is enhanced by ATR and TOP1 inhibition. Cancer medicine, 12(4), 4864.


Chen H, et al. (2023) BET Inhibitors Target the SCLC-N Subtype of Small-Cell Lung Cancer by Blocking NEUROD1 Transactivation. Molecular cancer research: MCR, 21(2), 91.


Choi J, et al. (2023) Dynamic intestinal stem cell plasticity and lineage remodeling by a nutritional environment relevant to human risk for tumorigenesis. Molecular cancer research: MCR.


Tran GB, et al. (2023) Caffeine supplementation and FOXM1 inhibition enhance the antitumor effect of statins in neuroblastoma. Cancer research.


Zhu Y, et al. (2023) Targeting the chromatin effector Pygo2 promotes cytotoxic T cell
responses and overcomes immunotherapy resistance in prostate cancer. Science immunology, 8(81), eade4656.