Resource Summary Report

Generated by PRECISE-TBI on Sep 7, 2026

Molecular Signatures Database

RRID:SCR_016863
Type: Tool

Proper Citation

Molecular Signatures Database (RRID:SCR_016863)

Resource Information

URL: http://software.broadinstitute.org/gsea/msigdb/index.jsp

Proper Citation: Molecular Signatures Database (RRID:SCR_016863)

Description: Collection of annotated gene sets for use with Gene Set Enrichment Analysis (GSEA) software.

Abbreviations: MSigDB

Synonyms: Molecular Signatures Database, The Molecular Signatures Database, MSigDB, MSigDB database v6.2

Resource Type: data or information resource, database

Keywords: collection, annotated, gene, set, GSEA, enrichment, analysis, genome, RNA, expression, data, FASEB list, DRKB

Funding: NCI CA295532;
NIGMS ;
NIH

Availability: Free, Freely available, Registration required to download GSEA software

Resource Name: Molecular Signatures Database

Resource ID: SCR_016863

Alternate URLs: https://www.gsea-msigdb.org/gsea/msigdb/

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260905T133214+0000

Ratings and Alerts

No rating or validation information has been found for Molecular Signatures Database.

No alerts have been found for Molecular Signatures Database.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1702 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Szpotkowska J, et al. (2026) Oxidative stress and GPX2 control pancreatic vs. non-pancreatic cell fate in human endoderm. Nature communications, 17(1), 1407.

Raschdorf A, et al. (2026) Colonic spatial single-cell proteomics and murine models link mitochondrial dysfunction to dimeric IgA-secreting plasma cell deficiency in Crohn's disease. Nature communications, 17(1), 1590.

Zhen S, et al. (2026) Unraveling heterogeneity in LUAD via multi-omics integration: molecular classification and therapeutic implications. Discover oncology, 17(1).

Yang L, et al. (2026) TEAD4 and RXRA Regulate the Function of Nucleus Pulposus Cells in Intervertebral Disc Degeneration Via the TNF-?/NF-?B Pathway: An Integrated Analysis of Single-Cell RNA-Seq, Bulk RNA-Seq, and In Vitro Validation. Applied biochemistry and biotechnology, 198(3), 1939.

Moore N, et al. (2026) Biological Mechanisms of Strength Preservation During Calorie Restriction-Induced Weight Loss Among Young- to Middle-Aged Adults without Obesity. bioRxiv : the preprint server for biology.

Zhu Q, et al. (2026) STING synergizes with TOX suppressing HO-1 expression to trigger ferroptosis in tumor-infiltrating CD8+ T cell and immunotherapy resistance. Nature communications, 17(1).

Zhang P, et al. (2026) Integrative machine learning identifies a TEAD4-driven endothelial program shaping drug sensitivity and microvascular invasion in HCC. Journal of translational medicine, 24(1).

Han S, et al. (2026) RUNX1-deficiency drives immune-active ER+ mammary tumorigenesis through activation of interferon signaling. bioRxiv : the preprint server for biology.

Wang Y, et al. (2026) A pyroptosis-related gene signature for the diagnosis of acute pancreatitis. PloS one, 21(4), e0347204.

Cao G, et al. (2026) Cross-species scRNA-seq finds ideal mouse models for aortic dissection mechanisms. iScience, 29(3), 115147.

Li Y, et al. (2026) Revealing key genes and molecular mechanisms associated with dietary restriction in ulcerative colitis. Frontiers in molecular biosciences, 13, 1786138.

Dong X, et al. (2026) Identification of glycometabolism-related genes for predicting the prognosis of patients with glioblastoma and its correlation with immune infiltration. Discover oncology, 17(1).

Zhao Y, et al. (2026) Single-Cell and Multi-Omics-Based Characterization of Gastric Cancer Identifies TPP1 as a Potential Target for Gastric Cancer Progression and Treatment. Oncology research, 34(4), 27.

Chen X, et al. (2026) Biomimetic bone niche reconstructs proliferation-inhibited and therapy-resistant bone-metastatic prostate cancer. Bioactive materials, 56, 15.

Lu Z, et al. (2026) [Construction of a prognosis forecasting model for breast cancer based on lipid metabolism-related genes and functional verification of ALDH2]. Zhejiang da xue xue bao. Yi xue ban = Journal of Zhejiang University. Medical sciences, 55(1), 77.

Xiao T, et al. (2026) Lactylation-related genes signature panel in hepatocellular carcinoma reveals the prognostic and therapeutic optimization. Molecular & cellular oncology, 13(1), 2621475.

Zhang L, et al. (2026) Prognostic significance of calcium signaling-related genes in bladder cancer and the role of ATP2B4 in regulating mitochondrial calcium ion levels via the VDAC1/MCU pathway. Frontiers in immunology, 17, 1561666.

Chen W, et al. (2026) Identification of an age-related monocyte-derived macrophages characteristic genes-based signature for high-grade diffuse glioma. Scientific reports, 16(1).

Jin J, et al. (2026) Identification and histological validation of autophagy-related core genes ADRB2 and PLK2 in keloids, with integrated immune infiltration analysis. Frontiers in immunology, 17, 1724230.

Ling S, et al. (2026) Integrative omics and experimental validation reveal METTL17 and SLC27A1 as biomarkers and potential therapeutic targets in chronic kidney disease. Frontiers in immunology, 17, 1724740.