

Resource Summary Report

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[DSigDB](#)

RRID:SCR_026202

Type: Tool

Proper Citation

DSigDB (RRID:SCR_026202)

Resource Information

URL: <https://dsigdb.tanlab.org/DSigDBv1.0/>

Proper Citation: DSigDB (RRID:SCR_026202)

Description: Online database provides collection of gene sets based on quantitative inhibition and/or drug-induced gene expression changes data of drugs and compounds. Allows users to search, view and download drugs/compounds and gene sets.

Synonyms: , Drug Signatures Database, drug SIGnatures DataBase

Resource Type: database, data or information resource

Defining Citation: [PMID:25990557](#)

Keywords: gene sets, quantitative inhibition, drug induced, gene expression changes, data, drugs, compounds,

Funding: NCI P30CA046934;
NCI P50CA058187

Availability: Free, Freely available,

Resource Name: DSigDB

Resource ID: SCR_026202

Record Creation Time: 20241220T053316+0000

Record Last Update: 20260805T044556+0000

Ratings and Alerts

No rating or validation information has been found for DSigDB.

No alerts have been found for DSigDB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 82 mentions in open access literature.

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

Cai YX, et al. (2025) An integrated multi-omics analysis identifies protein biomarkers and potential drug targets for psoriatic arthritis. *Communications biology*, 8(1), 240.

Liu Y, et al. (2025) Combining mitochondrial proteomes and Mendelian randomization to identify novel therapeutic targets for diabetic nephropathy. *Renal failure*, 47(1), 2473669.

Huoshen W, et al. (2025) Identification of Potential Biomarkers and Therapeutic Targets for Periodontitis. *International dental journal*, 75(2), 1370.

Xie L, et al. (2025) Identifying therapeutic target genes for diabetic retinopathy using systematic druggable genome-wide Mendelian randomization. *Diabetology & metabolic syndrome*, 17(1), 145.

Tang W, et al. (2025) Identification of Causal Plasma Proteins in Hepatocellular Carcinoma via Two-Sample Mendelian Randomization and Integrative Transcriptomic???Proteomic Analysis. *Cancer research communications*, 5(3), 433.

Deng C, et al. (2025) Multi-omics analysis identifies diagnostic circulating biomarkers and potential therapeutic targets, revealing IQGAP1 as an oncogene in gastric cancer. *NPJ precision oncology*, 9(1), 105.

Wang Q, et al. (2025) Identification of novel biomarkers and drug targets for frailty-related skeletal muscle aging: a multi-omics study. *QJM : monthly journal of the Association of Physicians*, 118(9), 657.

Han H, et al. (2025) Identifying MTHFD1 and LGALS4 as Potential Therapeutic Targets in Prostate Cancer Through Multi-Omics Mendelian Randomization Analysis. *Biomedicines*, 13(1).

Yang N, et al. (2025) Focusing on spinal stenosis: emerging discoveries concerning Alendronate-induced risks and genetic drug targets. *Journal of orthopaedic surgery and research*, 20(1), 444.

Dai J, et al. (2025) CIRCULATING INFLAMMATORY PROTEINS IN DRUG-INDUCED ANAPHYLACTIC SHOCK: EVIDENCE FROM MULTIVARIABLE MENDELIAN RANDOMIZATION AND MULTIOMICS INTEGRATION. *Shock (Augusta, Ga.)*, 64(4), 380.

Liu X, et al. (2025) Integrating single-cell sequencing and transcriptome analysis to unravel the mechanistic role of sialylation-related genes in sepsis-induced acute

respiratory distress syndrome. *Frontiers in immunology*, 16, 1528769.

Deng X, et al. (2025) Integrated Genomic and GEO Data Analysis Reveals Therapeutic Targets for Rosacea. *Journal of cosmetic dermatology*, 24(7), e70334.

Chen C, et al. (2025) From genetic causality to druggable targets: A multiomics framework identifies ZSCAN16 in gout pathogenesis. *Science progress*, 108(4), 368504251407179.

Li J, et al. (2025) Comprehensive Proteomic Profiling of Exfoliation Glaucoma Via Mass Spectrometry Reveals SVEP1 as a Potential Biomarker. *Investigative ophthalmology & visual science*, 66(3), 19.

Gui J, et al. (2025) Proteome-Wide and Immune Cell Phenotype Mendelian Randomization Highlights Immune Involvement in Genetic Generalized Epilepsy. *Brain and behavior*, 15(6), e70625.

Huang K, et al. (2025) Genetic targets related to aging for the treatment of coronary artery disease. *BMC medical genomics*, 18(1), 66.

Chen J, et al. (2025) Blood metabolites as mediators in erectile dysfunction: insights from a multi-center proteomics and genetic study. *Frontiers in pharmacology*, 16, 1568780.

Xiao Q, et al. (2025) Exploring the Molecular Mechanisms of Autophagy-related Genes in Hepatic Ischemia/Reperfusion Injury Using Bioinformatics. *Transplantation direct*, 11(7), e1829.

Lian K, et al. (2025) Novel Insights into Schizophrenia Treatment: Comprehensive Analysis Unveiling FGFR1 as a Promising Druggable Gene. *Molecular neurobiology*, 62(12), 15550.

Yang X, et al. (2025) CHST3, PGBD5, and SLIT2 can be identified as potential genes for the diagnosis and treatment of osteoporosis and sarcopenia. *Scientific reports*, 15(1), 374.