Resource Summary Report

Generated by dkNET on May 11, 2025

DrugBank

RRID:SCR_002700
Type: Tool

Proper Citation

DrugBank (RRID:SCR_002700)

Resource Information

URL: http://www.drugbank.ca/

Proper Citation: DrugBank (RRID:SCR_002700)

Description: Bioinformatics and cheminformatics database that combines detailed drug (i.e. chemical, pharmacological and pharmaceutical) data with comprehensive drug target (i.e. sequence, structure, and pathway) information.

Abbreviations: DrugBank

Resource Type: data or information resource, database

Defining Citation: PMID:16381955, PMID:21059682, PMID:18048412

Keywords: drug, target, pathway, structure, pharmacology, drug class, chemical, pharmaceutical, drug target, sequence, reaction, interaction, protein, proteome, blast, data analysis service, small molecule-protein, small molecule, clinical medicine, pharmacy, medicine, pharmaceutical biotechnology, cheminformatics, FASEB list

Funding: Genome Alberta ;
Genome Canada ;
GenomeQuest Inc. ;
Canadian Institutes of Health Research

Availability: Public, Free, Acknowledgement requested, Commercial with permission, Acknowledgement required

Resource Name: DrugBank

Resource ID: SCR_002700

Alternate IDs: nif-0000-00417, OMICS_01580

Record Creation Time: 20220129T080214+0000

Record Last Update: 20250507T060057+0000

Ratings and Alerts

No rating or validation information has been found for DrugBank.

No alerts have been found for DrugBank.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4390 mentions in open access literature.

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

Alrouji M, et al. (2025) Virtual screening and molecular dynamics simulations identify repurposed drugs as potent inhibitors of Histone deacetylase 1: Implication in cancer therapeutics. PloS one, 20(1), e0316343.

Liu L, et al. (2025) Bioinformatic analysis of ferroptosis related biomarkers and potential therapeutic targets in vitiligo. Scientific reports, 15(1), 2035.

Tang X, et al. (2025) CDPMF-DDA: contrastive deep probabilistic matrix factorization for drug-disease association prediction. BMC bioinformatics, 26(1), 5.

Wang D, et al. (2025) Ginkgo biloba extract mediates HT22 cell proliferation and migration after oxygen-glucose deprivation/reoxygenation via regulating RhoA-ROCK2 signalling pathway. Metabolic brain disease, 40(1), 91.

Francisco S, et al. (2025) Restoring adapter protein complex 4 function with small molecules: an in silico approach to spastic paraplegia 50. Protein science : a publication of the Protein Society, 34(1), e70006.

Banerjee A, et al. (2025) Machine learning assisted classification RASAR modeling for the nephrotoxicity potential of a curated set of orally active drugs. Scientific reports, 15(1), 808.

Stock V, et al. (2025) Tolterodine is a novel candidate for assessing CYP3A4 activity through

metabolic volatiles to predict drug responses. Scientific reports, 15(1), 2462.

Wang M, et al. (2025) Fecal Microbiome and Metabolomic Profiles of Mixed-Fed Infants Are More Similar to Formula-Fed than Breastfed Infants. Microorganisms, 13(1).

Yang Y, et al. (2025) ASpdb: an integrative knowledgebase of human protein isoforms from experimental and AI-predicted structures. Nucleic acids research, 53(D1), D331.

Chen X, et al. (2025) Network pharmacology and molecular docking to explore mechanisms of clozapine-induced cardiac arrest. Journal of psychiatry & neuroscience : JPN, 50(1), E1.

Ying H, et al. (2025) Integrated Network Pharmacology, Machine Learning and Experimental Validation to Identify the Key Targets and Compounds of TiaoShenGongJian for the Treatment of Breast Cancer. OncoTargets and therapy, 18, 49.

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).

Qi Z, et al. (2025) Mendelian Randomization Reveals Potential Causal Relationships Between DNA Damage Repair-Related Genes and Inflammatory Bowel Disease. Biomedicines, 13(1).

Chen X, et al. (2025) Real world pharmacovigilance assessment of drug related macular degeneration risks. Scientific reports, 15(1), 1220.

Nagaoka K, et al. (2025) Comparative Pharmacokinetic Analysis of Aflibercept and Brolucizumab in Human Aqueous Humor Using Nano-Surface and Molecular-Orientation Limited Proteolysis. International journal of molecular sciences, 26(2).

Zhang Y, et al. (2025) Clozapine Induces Agranulocytosis via Inflammatory and Hematopoietic Cytokine Induction of the JAK-STAT Signaling Pathway: Evidence From Network Pharmacology and Molecular Docking. CNS neuroscience & therapeutics, 31(1), e70206.

Li QY, et al. (2025) Study on mechanism of Spatholobi Caulis in the treatment of the hand-foot skin reaction induced by targeted drug therapy based on network pharmacology and molecular docking: An observational study. Medicine, 104(2), e41085.

Jia M, et al. (2025) Integrative bioinformatics approach identifies novel drug targets for hyperaldosteronism, with a focus on SHMT1 as a promising therapeutic candidate. Scientific reports, 15(1), 1690.

Yang G, et al. (2025) DTI-MHAPR: optimized drug-target interaction prediction via PCA-enhanced features and heterogeneous graph attention networks. BMC bioinformatics, 26(1), 11.

Li J, et al. (2025) MDFGNN-SMMA: prediction of potential small molecule-miRNA associations based on multi-source data fusion and graph neural networks. BMC bioinformatics, 26(1), 13.