Resource Summary Report

Generated by dkNET on Apr 29, 2025

PharmGKB

RRID:SCR_002689
Type: Tool

Proper Citation

PharmGKB (RRID:SCR_002689)

Resource Information

URL: http://www.pharmgkb.org/

Proper Citation: PharmGKB (RRID:SCR_002689)

Description: Database and central repository for genetic, genomic, molecular and cellular phenotype data and clinical information about people who have participated in pharmacogenomics research studies. The data includes, but is not limited to, clinical and basic pharmacokinetic and pharmacogenomic research in the cardiovascular, pulmonary, cancer, pathways, metabolic and transporter domains. PharmGKB welcomes submissions of primary data from all research into genes and genetic variation and their effects on drug and disease phenotypes. PharmGKB collects, encodes, and disseminates knowledge about the impact of human genetic variations on drug response. They curate primary genotype and phenotype data, annotate gene variants and gene-drug-disease relationships via literature review, and summarize important PGx genes and drug pathways. PharmGKB is part of the NIH Pharmacogenomics Research Network (PGRN), a nationwide collaborative research consortium. Its aim is to aid researchers in understanding how genetic variation among individuals contributes to differences in reactions to drugs. A selected subset of data from PharmGKB is accessible via a SOAP interface. Downloaded data is available for individual research purposes only. Drugs with pharmacogenomic information in the context of FDA-approved drug labels are cataloged and drugs with mounting pharmacogenomic evidence are listed.

Abbreviations: PharmGKB

Synonyms: Pharmacogenomics Knowledge Base

Resource Type: web service, database, service resource, data or information resource, storage service resource, data access protocol, data repository, data set, software resource

Defining Citation: PMID:11908751

Keywords: pharmacogenomics, microarray, pathway, phenotype, snp array, genotype, clinical, genetic variation, drug, gene, genetic variation, disease, cardiovascular, pulmonary, cancer, metabolic, transporter, drug response, small molecule, research, drug response, FASEB list

Funding: NIGMS R24 GM61374

Availability: Individual research purposes, The community can contribute to this resource

Resource Name: PharmGKB

Resource ID: SCR_002689

Alternate IDs: nif-0000-00414, OMICS_01586

Record Creation Time: 20220129T080214+0000

Record Last Update: 20250429T054753+0000

Ratings and Alerts

No rating or validation information has been found for PharmGKB.

No alerts have been found for PharmGKB.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1024 mentions in open access literature.

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

Tian S, et al. (2025) Network Medicine-Based Strategy Identifies Maprotiline as a Repurposable Drug by Inhibiting PD-L1 Expression via Targeting SPOP in Cancer. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(1), e2410285.

Zhang Y, et al. (2025) Exploring similarities and differences in anti-atherosclerotic potential bioactives among Dendrobium species by UPLC-Q-Exactive Orbitrap MS. NPJ science of food, 9(1), 6.

Zhang M, et al. (2025) Topical transdermal administration of lenalidomide nanosuspensions-

based hydrogels against melanoma: In vitro and in vivo studies. International journal of pharmaceutics: X, 9, 100316.

Li F, et al. (2025) SPathDB: a comprehensive database of spatial pathway activity atlas. Nucleic acids research, 53(D1), D1205.

D'Cunha R, et al. (2025) Evaluation of the Effect of Risankizumab on the Pharmacokinetics of Cytochrome P450 Substrates in Patients with Moderately to Severely Active Ulcerative Colitis or Crohn's Disease. Clinical pharmacokinetics, 64(1), 143.

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.

Duong Nguyen TT, et al. (2025) PGxDB: an interactive web-platform for pharmacogenomics research. Nucleic acids research, 53(D1), D1486.

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.

Wang R, et al. (2025) Hydroxychloroquine enhances insulin sensitivity and ameliorates abnormal lipid metabolism in obese women with polycystic ovary syndrome. BMC endocrine disorders, 25(1), 2.

Peruzzi E, et al. (2025) Implementation of pre-emptive testing of a pharmacogenomic panel in clinical practice: Where do we stand? British journal of clinical pharmacology, 91(2), 270.

Tremmel R, et al. (2025) PharmFreq: a comprehensive atlas of ethnogeographic allelic variation in clinically important pharmacogenes. Nucleic acids research, 53(D1), D1498.

Keat K, et al. (2025) PGxQA: A Resource for Evaluating LLM Performance for Pharmacogenomic QA Tasks. Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing, 30, 229.

Hsu JS, et al. (2024) Complete genomic profiles of 1496 Taiwanese reveal curated medical insights. Journal of advanced research, 66, 197.

Ma T, et al. (2024) Research on the mechanism of Guanyu Zhixie Granule in intervening gastric ulcers in rats based on network pharmacology and multi-omics. Frontiers in veterinary science, 11, 1390473.

Goljan E, et al. (2024) Large-scale next generation sequencing based analysis of SLCO1B1 pharmacogenetics variants in the Saudi population. Human genomics, 18(1), 30.

Argentato PP, et al. (2024) Integrative network analysis of differentially methylated regions to study the impact of gestational weight gain on maternal metabolism and fetal-neonatal growth. Genetics and molecular biology, 47(1), e20230203.

Wang J, et al. (2024) Study on the mechanism of Shugan Lidan Xiaoshi granule in preventing acute pancreatitis based on network pharmacology and molecular docking. Heliyon, 10(5), e27365.

Yang F, et al. (2024) Unveiling the link between lactate metabolism and rheumatoid arthritis through integration of bioinformatics and machine learning. Scientific reports, 14(1), 9166.

Li B, et al. (2024) Evaluating the causal effect of circulating proteome on the risk of inflammatory bowel disease-related traits using Mendelian randomization. Frontiers in immunology, 15, 1434369.

Zhu P, et al. (2024) Exploring the effects of calycosin on anthracycline-induced cardiotoxicity: a network pharmacology, molecular docking, and experimental study. Frontiers in cardiovascular medicine, 11, 1286620.