

Resource Summary Report

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Genetic Association Database

RRID:SCR_013264

Type: Tool

Proper Citation

Genetic Association Database (RRID:SCR_013264)

Resource Information

URL: <http://geneticassociationdb.nih.gov/>

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Description: The Genetic Association Database is an archive of human genetic association studies of complex diseases and disorders. The goal of this database is to allow the user to rapidly identify medically relevant polymorphism from the large volume of polymorphism and mutational data, in the context of standardized nomenclature. The data is from published scientific papers. Study data is recorded in the context of official human gene nomenclature with additional molecular reference numbers and links. It is gene centered. That is, each record is a record of a gene or marker. If a study investigated 6 genes for a particular disorder, there will be 6 records. Anyone may view this database and anyone may submit records. You do not have to be an author on the original study to submit a record. All submitted records will be reviewed before inclusion in the archive. Both genetic and environmental factors contribute to human diseases. Most common diseases are influenced by a large number of genetic and environmental factors, most of which individually have only a modest effect on the disease. Though genetic contributions are relatively well characterized for some monogenetic diseases, there has been no effort at curating the extensive list of environmental etiological factors. From a comprehensive search of the MeSH annotation of MEDLINE articles, they identified 3,342 environmental etiological factors associated with 3,159 diseases. They also identified 1,100 genes associated with 1,034 complex diseases from the NIH Genetic Association Database (GAD), a database of genetic association studies. 863 diseases have both genetic and environmental etiological factors available. Integrating genetic and environmental factors results in the etiome, which they define as the comprehensive compendium of disease etiology.

Synonyms: GAD

Resource Type: data or information resource, database

Keywords: environmental, etiological, etiology, factor, gene, general human genetics databases, genetic, association, complex, disease, disorder, human, medically, molecular, monogenetic, mutational, nomenclature, polymorphism, scientific, FASEB list

Related Condition: Aging

Resource Name: Genetic Association Database

Resource ID: SCR_013264

Alternate IDs: nif-0000-21163

Record Creation Time: 20220129T080315+0000

Record Last Update: 20260729T044314+0000

Ratings and Alerts

No rating or validation information has been found for Genetic Association Database.

No alerts have been found for Genetic Association Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 152 mentions in open access literature.

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

Xie Y, et al. (2025) FoxO1 as a Hub in Immunosenescence Induced by Hepatocellular Carcinoma and the Effect of Yangyin Fuzheng Jiedu Prescription. Drug design, development and therapy, 19, 1543.

Qu L, et al. (2024) FBXL16: a new regulator of neuroinflammation and cognition in Alzheimer's disease through the ubiquitination-dependent degradation of amyloid precursor protein. Biomarker research, 12(1), 144.

Wei X, et al. (2024) Interpreting the Mechanism of Active Ingredients in Polygonati Rhizoma in Treating Depression by Combining Systemic Pharmacology and In Vitro Experiments. Nutrients, 16(8).

Manoochehri H, et al. (2024) Key target genes related to anti-breast cancer activity of ATRA: A network pharmacology, molecular docking and experimental investigation. Heliyon, 10(14), e34300.

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.

Yoon W, et al. (2023) Biomedical relation extraction with knowledge base-refined weak supervision. Database : the journal of biological databases and curation, 2023.

Gao S, et al. (2023) Oridonin suppresses gastric cancer SGC-7901 cell proliferation by targeting the TNF-alpha/androgen receptor/TGF-beta signalling pathway axis. Journal of cellular and molecular medicine, 27(18), 2661.

Xie Y, et al. (2023) Mechanisms and network pharmacological analysis of Yangyin Fuzheng Jiedu prescription in the treatment of hepatocellular carcinoma. Cancer medicine, 12(3), 3237.

Gu Y, et al. (2022) Exploring the mechanism of Buyang Huanwu decoction in the treatment of lumbar disc herniation based on network pharmacology and molecular docking. Medicine, 101(32), e29534.

Wang Y, et al. (2022) An integrated study of Shenling Baizhu San against hyperuricemia: Efficacy evaluation, core target identification and active component discovery. Journal of ethnopharmacology, 295, 115450.

Cui M, et al. (2022) Integrative analysis of omics summary data reveals putative mechanisms linked to different cell populations in systemic lupus erythematosus. Genomics, 114(4), 110435.

Zhang D, et al. (2021) Network pharmacology modeling identifies synergistic interaction of therapeutic and toxicological mechanisms for Tripterygium hypoglaucum Hutch. BMC complementary medicine and therapies, 21(1), 38.

Chen Y, et al. (2021) Synergistic Network Pharmacology for Traditional Chinese Medicine Liangxue Tongyu Formula in Acute Intracerebral Hemorrhagic Stroke. Neural plasticity, 2021, 8874296.

Zhang Y, et al. (2021) Network Pharmacology Analysis of the Mechanisms of Compound Herba Sarcandrae (Fufang Zhongjiefeng) Aerosol in Chronic Pharyngitis Treatment. Drug design, development and therapy, 15, 2783.

Podder A, et al. (2021) Cross-Species and Human Inter-Tissue Network Analysis of Genes Implicated in Longevity and Aging Reveal Strong Support for Nutrient Sensing. Frontiers in genetics, 12, 719713.

Zhou L, et al. (2021) The mechanism and candidate compounds of aged citrus peel (chenpi) preventing chronic obstructive pulmonary disease and its progression to lung cancer. Food & nutrition research, 65.

Mizuki Y, et al. (2021) Mechanisms Underlying the Comorbidity of Schizophrenia and Type 2 Diabetes Mellitus. The international journal of neuropsychopharmacology, 24(5), 367.

Lin H, et al. (2021) Exploring the treatment of COVID-19 with Yinqiao powder based on network pharmacology. Phytotherapy research : PTR, 35(5), 2651.

Wei TF, et al. (2021) Qing-Yi Decoction in the Treatment of Acute Pancreatitis: An Integrated Approach Based on Chemical Profile, Network Pharmacology, Molecular Docking and Experimental Evaluation. *Frontiers in pharmacology*, 12, 590994.

Huang XJ, et al. (2021) Systems pharmacology-based dissection of mechanisms of Tibetan medicinal compound Ruteng as an effective treatment for collagen-induced arthritis rats. *Journal of ethnopharmacology*, 272, 113953.