Resource Summary Report

Generated by T1D on Aug 5, 2026

GeneNetwork

RRID:SCR_002388
Type: Tool

Proper Citation

GeneNetwork (RRID:SCR_002388)

Resource Information

URL: http://www.genenetwork.org/

Proper Citation: GeneNetwork (RRID:SCR_002388)

Description: Web platform that provides access to data and tools to study complex networks of genes, molecules, and higher order gene function and phenotypes. Sequence data (SNPs) and transcriptome data sets (expression genetic or eQTL data sets). Quantitative trait locus (QTL) mapping module that is built into GN is optimized for fast on-line analysis of traits that are controlled by combinations of gene variants and environmental factors. Used to study humans, mice (BXD, AXB, LXS, etc.), rats (HXB), Drosophila, and plant species (barley and Arabidopsis). Users are welcome to enter their own private data.

Abbreviations: GeneNetwork, WebQTL

Synonyms: GeneNetwork and WebQTL, GeneNetwork / WebQTL, www.genenetwork.org, GeneNetwork WebQTL, The GeneNetwork / WebQTL

Resource Type: storage service resource, data repository, service resource, database, data or information resource

Defining Citation: PMID:8043953, PMID:11737945, PMID:15043217, PMID:15114364, PMID:15043220, PMID:15043219, PMID:15711545, PMID:18368372, PMID:27933521

Keywords: Variation, trait, vertebrate trait ontology, phenotype, systems genetics, quantitative trait, gene mapping, experimental precision medicinenetwork analysis, causal modeling, genomic location, genotype, inbred strain, sex, heterogeneous stock, phenome, phenotype, QTL, expression QTL, genetic reference population, single nucleotide polymorphism, RNA expression, protein expression, metabolite expression, metagenomics, epigenomics, gene-by-environmental interaction, epistasis, FAIR data standards, open source software, FASEB list

Funding: NIGMS R01 GM123489;
NIAAA U01 AA016662;
NIAAA U01 AA13499;
NIAAA U24 AA13513;
NIAAA U01 AA014425;
NIA R01 AG043930;
NIDA P20 DA21131;
NCI U01 CA105417;
NCRR U24 RR021760

Availability: Restricted

Resource Name: GeneNetwork

Resource ID: SCR_002388

Alternate IDs: nif-0000-00380

License: GNU Affero General Public License, v3, GNU General Public License

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260805T044037+0000

Ratings and Alerts

No rating or validation information has been found for GeneNetwork.

No alerts have been found for GeneNetwork.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 473 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Yin Q, et al. (2026) Genetic landscape of morphine response in BXD recombinant inbred mice. HGG advances, 7(1), 100535.

Arcego DM, et al. (2026) Sex-specific interaction effects of Syntaxin 1A coexpression network and childhood trauma on adult depressive symptoms. EBioMedicine, 123, 106062.

Laezza F, et al. (2026) Identifying new targets in the fight against opioids. eLife, 15.

Rogers WD, et al. (2025) Identification of ethanol analgesia quantitative trait loci and candidate genes in BXD recombinant inbred mouse lines. Addiction biology, 30(2), e70013.

Li L, et al. (2025) Genetic modulation of protein expression in rat brain. iScience, 28(3), 112079.

Yang Z, et al. (2025) Morc4 is a novel functional gene associated with lipid metabolism in BXD recombinant inbred population. Frontiers in cardiovascular medicine, 12, 1570729.

Jones BC, et al. (2025) Epigenetic study of the long-term effects of gulf War illness. Frontiers in genetics, 16, 1553410.

Haydar S, et al. (2025) A Genome-Wide Association Study of Taste Liking in the Danish Population. The Journal of nutrition, 155(8), 2591.

Sharp BM, et al. (2025) Inbred rat heredity and sex affect oral oxycodone self-administration and augmented intake in long sessions: correlations with anxiety and novelty-seeking. PloS one, 20(3), e0314777.

Villani F, et al. (2025) Pangenome reconstruction in rats enhances genotype-phenotype mapping and variant discovery. iScience, 28(2), 111835.

Arends D, et al. (2025) Genetic Modulation of Lifespan: Dynamic Effects, Sex Differences, and Body Weight Trade-offs. bioRxiv : the preprint server for biology.

Wolstenholme JT, et al. (2025) Variation of Myelin-associated Gene Expression and Ndrg1 within the Prefrontal Cortex as Determinants for Initial Level of Response to Alcohol. bioRxiv : the preprint server for biology.

Wang C, et al. (2025) HOGA1 Suppresses Renal Cell Carcinoma Growth via Inhibiting the Wnt/??-Catenin Signalling Pathway. Journal of cellular and molecular medicine, 29(6), e70490.

Dardani C, et al. (2025) Immunological drivers and potential novel drug targets for major psychiatric, neurodevelopmental, and neurodegenerative conditions. Molecular psychiatry, 30(10), 4487.

Rajan JRS, et al. (2025) Investigating Motor Coordination Using BXD Recombinant Inbred Mice to Model the Genetic Underpinnings of Developmental Coordination Disorder. Genes, brain, and behavior, 24(2), e70014.

Chen Y, et al. (2025) Transcriptional regulation of adipocyte lipolysis by IRF2BP2. Science advances, 11(1), eads5963.

Orgil BO, et al. (2025) Unraveling the genetic blueprint of doxorubicin-induced cardiotoxicity through systems genetics approaches. Cardio-oncology (London, England), 11(1), 53.

Crisol BM, et al. (2025) Excessive exercise elicits poly (ADP-ribose) Polymerase-1 activation and global protein PARylation driving muscle dysfunction and performance impairment. Molecular metabolism, 96, 102135.

Leng M, et al. (2025) Mitophagy-mediated S1P facilitates muscle adaptive responses to endurance exercise through SPHK1-S1PR1/S1PR2 in slow-twitch myofibers. Autophagy, 21(10), 2111.

Jaramillo-Ospina AM, et al. (2025) Brain insulin receptor gene network shapes risk for metabolic disease after early-life stress in women. Communications biology, 8(1), 1372.