Resource Summary Report

Generated by dkNET on Apr 23, 2025

Rat Genome Database (RGD)

RRID:SCR_006444
Type: Tool

Proper Citation

Rat Genome Database (RGD) (RRID:SCR_006444)

Resource Information

URL: http://rgd.mcw.edu

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Description: Database for genetic, genomic, phenotype, and disease data generated from rat research. Centralized database that collects, manages, and distributes data generated from rat genetic and genomic research and makes these data available to scientific community. Curation of mapped positions for quantitative trait loci, known mutations and other phenotypic data is provided. Facilitates investigators research efforts by providing tools to search, mine, and analyze this data. Strain reports include description of strain origin, disease, phenotype, genetics, immunology, behavior with links to related genes, QTLs, sub-strains, and strain sources.

Abbreviations: RGD

Synonyms: , Rat Genome Database, RGD

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

Defining Citation: PMID:23434633, PMID:18996890, PMID:17151068

Keywords: RIN, Resource Information Network, mouse, rat, human, gene, qtl, marker, map, strain, sequence, est, genome, ontology, pathway, comparative genomics, physiology, phenotype, disease, model organism, proteomics, function, genetic, genomic, variation, immunology, behavior, knockout, inbred rat strain, mutant, congenic rat, recombinant inbred rat, data analysis service, organism supplier, genotype, gold standard, FASEB list

Funding: NHLBI

Availability: Free, Freely available

Resource Name: Rat Genome Database (RGD)

Resource ID: SCR_006444

Alternate IDs: nif-0000-00134, OMICS_01660

Record Creation Time: 20220129T080236+0000

Record Last Update: 20250423T060308+0000

Ratings and Alerts

No rating or validation information has been found for Rat Genome Database (RGD).

No alerts have been found for Rat Genome Database (RGD).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 268 mentions in open access literature.

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

Lu M, et al. (2024) Identification of the genetic background of laboratory rats through amplicon-based next-generation sequencing for single-nucleotide polymorphism genotyping. BMC genomic data, 25(1), 84.

Dong W, et al. (2024) Deficiency of interleukin-1 receptor antagonist in mice differentially affects bone properties under different genomic backgrounds. Scientific reports, 14(1), 19889.

Li ZA, et al. (2024) Systems genetics of influenza A virus-infected mice identifies TRIM21 as a critical regulator of pulmonary innate immune response. Virus research, 342, 199335.

Hagenauer MH, et al. (2024) Resource: A Curated Database of Brain-Related Functional Gene Sets (Brain.GMT). bioRxiv : the preprint server for biology.

Duderstadt EL, et al. (2023) Rat Mammary carcinoma susceptibility 3 (Mcs3) pleiotropy, socioenvironmental interaction, and comparative genomics with orthologous human 15q25.1-25.2. G3 (Bethesda, Md.), 13(1).

Kuramoto T, et al. (2023) Positional cloning of rat mutant genes reveals new functions of these genes. Experimental animals, 72(1), 1.

Vedi M, et al. (2023) 2022 updates to the Rat Genome Database: a Findable, Accessible, Interoperable, and Reusable (FAIR) resource. Genetics, 224(1).

Stefanova NA, et al. (2023) The Rat Brain Transcriptome: From Infancy to Aging and Sporadic Alzheimer's Disease-like Pathology. International journal of molecular sciences, 24(2).

Hu Y, et al. (2023) Omic horizon expression: a database of gene expression based on RNA sequencing data. BMC genomics, 24(1), 674.

Barratt KS, et al. (2023) 35th International Mammalian Genome Conference: meeting overview. Mammalian genome : official journal of the International Mammalian Genome Society, 1.

Hu Y, et al. (2023) PANGEA: a new gene set enrichment tool for Drosophila and common research organisms. Nucleic acids research, 51(W1), W419.

Ferrari LF, et al. (2022) Characterization of the Dahl salt-sensitive rat as a rodent model of inherited, widespread, persistent pain. Scientific reports, 12(1), 19348.

Wu SF, et al. (2022) Mitochondrial Transplantation Moderately Ameliorates Retinal Degeneration in Royal College of Surgeons Rats. Biomedicines, 10(11).

Gokula V, et al. (2022) Six Decades of History of Hypertension Research at the University of Toledo: Highlighting Pioneering Contributions in Biochemistry, Genetics, and Host-Microbiota Interactions. Current hypertension reports, 24(12), 669.

Dahale S, et al. (2022) Cap analysis of gene expression reveals alternative promoter usage in a rat model of hypertension. Life science alliance, 5(4).

Binder J, et al. (2022) Machine learning prediction and tau-based screening identifies potential Alzheimer's disease genes relevant to immunity. Communications biology, 5(1), 125.

Engel SR, et al. (2022) New data and collaborations at the Saccharomyces Genome Database: updated reference genome, alleles, and the Alliance of Genome Resources. Genetics, 220(4).

Yuan Z, et al. (2022) Identification of potential dilated cardiomyopathy-related targets by meta-analysis and co-expression analysis of human RNA-sequencing datasets. Life sciences, 306, 120807.

Kaldunski ML, et al. (2022) The Rat Genome Database (RGD) facilitates genomic and phenotypic data integration across multiple species for biomedical research. Mammalian genome : official journal of the International Mammalian Genome Society, 33(1), 66.

Anjos PAR, et al. (2022) The influence of chromosome 4 on high ethanol consumption and blood pressure. Alcohol (Fayetteville, N.Y.), 102, 1.