Resource Summary Report

Generated by RRID on Aug 5, 2026

Mouse Genome Database

RRID:SCR_012953
Type: Tool

Proper Citation

Mouse Genome Database (RRID:SCR_012953)

Resource Information

URL: http://www.informatics.jax.org/

Proper Citation: Mouse Genome Database (RRID:SCR_012953)

Description: Community model organism database for laboratory mouse and authoritative source for phenotype and functional annotations of mouse genes. MGD includes complete catalog of mouse genes and genome features with integrated access to genetic, genomic and phenotypic information, all serving to further the use of the mouse as a model system for studying human biology and disease. MGD is a major component of the Mouse Genome Informatics.Contains standardized descriptions of mouse phenotypes, associations between mouse models and human genetic diseases, extensive integration of DNA and protein sequence data, normalized representation of genome and genome variant information. Data are obtained and integrated via manual curation of the biomedical literature, direct contributions from individual investigators and downloads from major informatics resource centers. MGD collaborates with the bioinformatics community on the development and use of biomedical ontologies such as the Gene Ontology (GO) and the Mammalian Phenotype (MP) Ontology.

Abbreviations: MGD

Synonyms: Mouse Genome Informatics: Mouse Genome Database, MGID, Mouse Genome Informatics Database

Resource Type: database, data or information resource

Defining Citation: PMID:21051359

Keywords: gene, genome, genetic, chromosome, clone, cytogenetic, dna, genomic, inbred, mammalian, mouse, mutant, ortholog, phenotype, primer, protein, reagent, sequence, strain, bio.tools

Funding: NHGRI HG000330

Resource Name: Mouse Genome Database

Resource ID: SCR_012953

Alternate IDs: biotools:mgi, biotools:mgd, nif-0000-10301

Alternate URLs: http://www.informatics.jax.org/mgihome/projects/overview.shtml, https://bio.tools/mgd, https://bio.tools/mgi

Record Creation Time: 20220129T080313+0000

Record Last Update: 20260805T044306+0000

Ratings and Alerts

No rating or validation information has been found for Mouse Genome Database.

No alerts have been found for Mouse Genome Database.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 502 mentions in open access literature.

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

Yañez IM, et al. (2026) Neuroglobin: A promising candidate to treat neurological diseases. Neural regeneration research, 21(4), 1292.

Yu Z, et al. (2026) Multi-trait genome-wide analysis identified risk loci and candidate drugs for heart failure. HGG advances, 7(1), 100540.

Marino GB, et al. (2025) GeneSetCart: assembling, augmenting, combining, visualizing, and analyzing gene sets. GigaScience, 14.

Zhai M, et al. (2025) A smooth muscle cell lncRNA controls angiogenesis in chronic limb-threatening ischemia through miR-143-3p/HHIP signaling. The Journal of clinical investigation, 135(20).

Aras S, et al. (2025) Transcriptome Analysis of the Effects of X-Ray Radiotherapy on Non-small-cell Lung Cancer Using Next-generation Sequencing. In vivo (Athens, Greece), 39(5), 2711.

Dou Y, et al. (2025) Endothelial RNF20 suppresses endothelial-to-mesenchymal transition and safeguards physiological angiocrine signaling to prevent congenital heart disease. Nature communications, 16(1), 9480.

Almaguer-Mederos LE, et al. (2025) Multiomics approach identifies SERPINB1 as candidate biomarker for spinocerebellar ataxia type 2. Scientific reports, 15(1), 42559.

Busarello E, et al. (2025) Cell Marker Accordion: interpretable single-cell and spatial omics annotation in health and disease. Nature communications, 16(1), 5399.

Xu X, et al. (2025) A multi-step immune-competent genetic mouse model reveals phenotypic plasticity in uveal melanoma. bioRxiv : the preprint server for biology.

Bocher O, et al. (2025) Unravelling the molecular mechanisms causal to type 2 diabetes across global populations and disease-relevant tissues. medRxiv : the preprint server for health sciences.

González JT, et al. (2025) Age-invariant genes: multi-tissue identification and characterization of murine reference genes. Aging, 17(1), 170.

Román-Trufero M, et al. (2025) An ISR-independent role of GCN2 prevents excessive ribosome biogenesis and mRNA translation. Life science alliance, 8(5).

Sun H, et al. (2025) Unveiling novel susceptibility genes and drug targets for basal cell carcinoma by a cross-tissue transcriptome-wide association study. Discover oncology, 16(1), 288.

Yin D, et al. (2025) GLP-1 receptor agonists show no detrimental effect on sperm quality in mouse models and cell lines. Endocrine, 89(2), 614.

Velásquez-Escobar AM, et al. (2025) Snrnp25 is a candidate for the peri-implantation lethal phenotype of the Hba deletions. Mammalian genome : official journal of the International Mammalian Genome Society, 36(3), 727.

Shen CL, et al. (2025) Sculptors of cerebellar fissures and their potential as therapeutic targets for cerebellar dysfunction. Frontiers in cellular neuroscience, 19, 1608185.

Ghanei-Motlagh R, et al. (2025) Sea lice (Lepeophtheirus salmonis) life stage impacts atlantic salmon transcriptomic responses under different thermal profiles. Frontiers in genetics, 16, 1633603.

Francoeur ER, et al. (2025) Segmental duplication-mediated rearrangements alter the landscape of mouse genomes. bioRxiv : the preprint server for biology.

Schneeberger S, et al. (2025) Interleukin-12 signaling drives Alzheimer's disease pathology through disrupting neuronal and oligodendrocyte homeostasis. Nature aging, 5(4), 622.

Batool F, et al. (2025) The combinatorial binding syntax of transcription factors in forebrain-specific enhancers. Biology open, 14(2).