

Resource Summary Report

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Mouse Genome Database

RRID:SCR_012953

Type: Tool

Proper Citation

Mouse Genome Database (RRID:SCR_012953)

Resource Information

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

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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: data or information resource, database

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: 20260905T133203+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 545 mentions in open access literature.

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

Hosokawa Y, et al. (2026) Chloride Intracellular Channel 2 Can Function as a Malignant Factor in Head and Neck Squamous Cell Carcinoma. *Head & neck*, 48(5), 1259.

Holmlund H, et al. (2026) Large-scale transcriptomic analyses reveal downstream target genes of ZFY1 and ZFY2 transcription factors in male germ cells. *Cell death and differentiation*, 33(2), 392.

Dumontet T, et al. (2026) The transcription factor HHEX maintains glucocorticoid levels and protects adrenals from androgen-induced lipid depletion. *Nature communications*, 17(1), 1535.

Xia W, et al. (2026) Expansion of outer cortical CUX2 neurons requires adaptations for DNA repair. *Nature*, 653(8115), 819.

Cohen O, et al. (2026) A novel loss-of-function mutation in MCMDC2 is associated with male infertility. *Human genome variation*, 13(1).

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

Breinig M, et al. (2026) Integrated in vivo combinatorial functional genomics and spatial transcriptomics of tumours to decode genotype-to-phenotype relationships. *Nature*

biomedical engineering, 10(1), 125.

Abu-Toamih Atamni HJ, et al. (2026) Mapping quantitative trait loci underlying body weight changes that act at different times during high-fat diet challenge in collaborative cross mice. *Animal models and experimental medicine*, 9(3), 621.

Suzuki A, et al. (2026) Identification of Genes and microRNAs Associated with Midfacial Hypoplasia in Mice. *Cells*, 15(5).

Zhu Z, et al. (2026) Candida albicans-Based Immune Training to Reduce Lung Fibrosis from Polystyrene Nanoparticles. *International journal of molecular sciences*, 27(10).

Smith CM, et al. (2026) The mouse Gene Expression Database (GXD): 2026 update. *Nucleic acids research*, 54(D1), D1190.

Lim HJ, et al. (2026) Deficiency of exocyst complex component Exoc5 exacerbates the progression of kidney fibrosis. *Experimental & molecular medicine*, 58(3), 681.

Quaynor SK, et al. (2026) Consensus-based Detection of Aetiologic Copy Number Variants For Syndromic Orofacial Clefts Utilising Whole Exome Sequencing of Case Parent Trios. *Research square*.

Kanwal A, et al. (2026) Genetic Variants from Large Cohorts and Familial Studies Implicate Common Mechanisms in Schizophrenia. *Biology*, 15(7).

Dhillon SK, et al. (2026) Cacna1b alternative splicing is linked to associative learning. *bioRxiv : the preprint server for biology*.

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

Bocher O, et al. (2026) Unravelling the molecular mechanisms causal to type 2 diabetes across global populations and disease-relevant tissues. *Nature metabolism*, 8(2), 506.

Ikeda S, et al. (2026) Fgf10 Gene Dosage from a Single Allele Is Insufficient for Forming Multilayered Epithelial Cells in the Murine Lacrimal Gland. *International journal of molecular sciences*, 27(5).

Aida Y, et al. (2026) Stimulation to secrete insulin induces pancreatic β -cell dysfunction through Tfe3 activation. *iScience*, 29(4), 115312.

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