

Resource Summary Report

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Mouse Genome Informatics (MGI)

RRID:SCR_006460

Type: Tool

Proper Citation

Mouse Genome Informatics (MGI) (RRID:SCR_006460)

Resource Information

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

Proper Citation: Mouse Genome Informatics (MGI) (RRID:SCR_006460)

Description: International database for laboratory mouse. Data offered by The Jackson Laboratory includes information on integrated genetic, genomic, and biological data. MGI creates and maintains integrated representation of mouse genetic, genomic, expression, and phenotype data and develops reference data set and consensus data views, synthesizes comparative genomic data between mouse and other mammals, maintains set of links and collaborations with other bioinformatics resources, develops and supports analysis and data submission tools, and provides technical support for database users. Projects contributing to this resource are: Mouse Genome Database (MGD) Project, Gene Expression Database (GXD) Project, Mouse Tumor Biology (MTB) Database Project, Gene Ontology (GO) Project at MGI, and MouseCyc Project at MGI.

Abbreviations: MGI

Synonyms: , MGI, Mouse Genome Informatics

Resource Type: data or information resource, database

Defining Citation: [PMID:19274630](#), [PMID:18428715](#)

Keywords: RIN, Resource Information Network, molecular neuroanatomy resource, human health, human disease, animal model, gene expression, phenotype, genotype, gene, pathway, orthology, tumor, strain, single nucleotide polymorphism, recombinase, function, blast, image, pathology, model, data analysis service, genome, genetics, gold standard, RRID Community Authority

Funding: NHGRI HG000330;
NHGRI HG002273;
NICHD HD033745;
NCI CA089713

Availability: Free, Freely available

Resource Name: Mouse Genome Informatics (MGI)

Resource ID: SCR_006460

Alternate IDs: nif-0000-00096, OMICS_01656, r3d100010266

Alternate URLs: <http://www.informatics.jax.org/batch>,
<http://www.informatics.jax.org/submit.shtml>,
<http://www.informatics.jax.org/expression.shtml>, <https://doi.org/10.17616/R35P54>

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License URLs: <https://www.informatics.jax.org/mgihome/other/copyright.shtml>

Record Creation Time: 20220129T080236+0000

Record Last Update: 20260801T190938+0000

Ratings and Alerts

No rating or validation information has been found for Mouse Genome Informatics (MGI).

No alerts have been found for Mouse Genome Informatics (MGI).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1119 mentions in open access literature.

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

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

Vinogradov-Talyah E, et al. (2026) Human clearance systems have a layered architecture across tissues and cell types that supports varied proteome compositions. Autophagy, 22(1), 145.

Qu X, et al. (2026) Investigation of epilepsy-related genes in a Drosophila model. Neural regeneration research, 21(1), 195.

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

White RB, et al. (2025) The X-Linked Intellectual Disability Gene, ZDHHC9 , Is Important for Oligodendrocyte Subtype Determination and Myelination. Glia, 73(7), 1452.

Laplante P, et al. (2025) Effect of MisMatch repair deficiency on metastasis occurrence in a syngeneic mouse model. *Neoplasia* (New York, N.Y.), 62, 101145.

Wang M, et al. (2025) Multi-omics integrative analysis reveals novel genetic loci and candidate genes for ischemic stroke. *Molecular therapy. Nucleic acids*, 36(3), 102633.

Wang K, et al. (2025) Transcriptome analysis of muscle atrophy in Leizhou black goats: identification of key genes and insights into limb-girdle muscular dystrophy. *BMC genomics*, 26(1), 80.

Zhang W, et al. (2025) Molecular mechanism on autophagy associated cardiovascular dysfunction in *Drosophila melanogaster*. *Frontiers in cell and developmental biology*, 13, 1512341.

Ytterbrink C, et al. (2025) Early apoptotic response in kidney after ¹⁷⁷Lu-octreotate administration with or without potential radioprotector ¹-microglobulin. *Radiation protection dosimetry*, 201(13-14), 877.

Ullah N, et al. (2025) Identification of missense DMC1 variants in males with non-obstructive azoospermia. *Journal of assisted reproduction and genetics*, 42(11), 3723.

Haque R, et al. (2025) Essential resources and best practices for laboratory mouse research. *Molecules and cells*, 48(2), 100178.

Du L, et al. (2025) GABP Promotes Mesangial Cell Proliferation and Renal Fibrosis Through GLI1 in Diabetic Nephropathy. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(15), e2407462.

Lam O, et al. (2025) Intact, recombinant, and spliced forms of endogenous mouse mammary tumor viruses in inbred and wild mice. *Journal of virology*, 99(4), e0007925.

Aminbeidokhti M, et al. (2025) Genetic Variants in Recurrent Euploid Pregnancy Loss. *medRxiv : the preprint server for health sciences*.

Urbanska M, et al. (2025) De novo identification of universal cell mechanics gene signatures. *eLife*, 12.

Zakharyan R, et al. (2025) Long-lasting sex-specific alteration in left ventricular cardiac transcriptome following gamma and simGCRsim radiation. *Scientific reports*, 15(1), 5963.

Mueller I, et al. (2025) An advancement in developmental and reproductive toxicity (DART) risk assessment: evaluation of a bioactivity and exposure-based NAM toolbox. *Frontiers in toxicology*, 7, 1602065.

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

Cheng B, et al. (2025) Comprehensive secretome profiling and CRISPR screen identifies SFRP1 as a key inhibitor of epidermal progenitor proliferation. *Cell death & disease*, 16(1), 360.