

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: 20260811T043250+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 1220 mentions in open access literature.

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

Ueki H, et al. (2026) A CRISPR knockout mouse library for functional genomics in influenza research. *Cell*, 189(14), 4471.

Xu X, et al. (2026) A Multistep Immune-Competent Genetically Engineered Mouse Model Reveals Phenotypic Plasticity in Uveal Melanoma. *Cancer research*, 86(15), 3666.

Kim JK, et al. (2026) Loss of ABCA3 disrupts lipid balance and leads to AMPK-dependent suppression of SREBP1 in glioblastoma stem cells. *Oncogene*, 45(15), 1357.

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.

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

- Harripaul R, et al. (2026) Autism spectrum disorder trios from consanguineous populations are enriched for rare homozygous variants, identifying 32 new candidate genes. *Scientific reports*, 16(1).
- Qu X, et al. (2026) Investigation of epilepsy-related genes in a *Drosophila* model. *Neural regeneration research*, 21(1), 195.
- Volpi J, et al. (2026) Non-isolated tetralogy of fallot (TOF+): exome sequencing efficacy and phenotypic expansions. *European journal of human genetics : EJHG*, 34(3), 333.
- Shavlakadze T, et al. (2026) Multitissue, multi-time point transcriptomic atlas of aging in mice and rats. *Science advances*, 12(16), eady8401.
- Zhang R, et al. (2026) Genomics Insights Into High-Latitude Adaptation of Tibetan Macaques. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(14), e11401.
- Yin Q, et al. (2026) Genetic landscape of morphine response in BXD recombinant inbred mice. *HGG advances*, 7(1), 100535.
- Wan C, et al. (2026) Reconstitution of spermatogenesis and continuous generation of functional haploid germ cells in mouse testicular organoids. *Nature communications*, 17(1).
- Li G, et al. (2026) Systematic prioritization of potential therapeutic targets for glomerulonephritis using multi-omics Mendelian randomization. *PLoS computational biology*, 22(4), e1014174.
- Kong F, et al. (2026) A Genetic Landscape of Euploid Miscarriages From Couples With Recurrent Pregnancy Loss Through Whole Exome Sequencing. *Molecular genetics & genomic medicine*, 14(4), e70220.
- Natsume-Kitatani Y, et al. (2026) Subset binding enables detection of multimodal patient subgroup patterns and drug target discovery in idiopathic pulmonary fibrosis. *Briefings in bioinformatics*, 27(2).
- Brown NL, et al. (2026) Direct Comparison of Constitutive Rax-Cre Transgenic Drivers That Activate in the Mouse Embryonic Eye Field. *Investigative ophthalmology & visual science*, 67(4), 33.
- Casado-Navarro R, et al. (2026) Expression atlas of Dmrt genes across sex and development in the mouse brain: functional insights from the olfactory system. *Biology of sex differences*, 17(1).
- Bakhshayeshi I, et al. (2026) CLinNET: An Interpretable and Uncertainty-Aware Deep Learning Framework for Multi-Modal Clinical Genomics. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(12), e12842.
- Araji S, et al. (2026) Non-Isolated Dandy-Walker Malformation: Exome Sequencing Efficacy and Phenotypic Expansions. *Clinical genetics*, 109(6), 1029.
- Suzuki R, et al. (2026) Nintedanib enhances the antitumor efficacy of pd-1 blockade, potentially through inhibition of myeloid-derived suppressor cells and cancer-associated

fibroblasts. Cancer immunology, immunotherapy : CII, 75(4).