

Resource Summary Report

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Vertebrate Homology

RRID:SCR_017517

Type: Tool

Proper Citation

Vertebrate Homology (RRID:SCR_017517)

Resource Information

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

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Description: MGI contains homology information for mouse, human, rat, chimp, dog and other species. Complete set of human, chimpanzee, rhesus macaque, dog, cattle, rat, chicken, western clawed frog and zebrafish Homology Classes for mouse genes. Report includes Chromosome and EntrezGene and OMIM IDs. Report of Human and Mouse Homology Classes sorted by HomoloGene ID includes associated nucleotide and protein sequences, Chromosome and OMIM IDs. Report of Human and Mouse Homology with phenotype annotations. Several additional MGI reports are available, including those for Gene Ontology, Phenotypes and Nomenclature.

Resource Type: data or information resource, service resource

Keywords: Homology, class, mouse, human, rat, chimp, dog, rhesus macaque, cattle, chicken, zebrafish, frog

Availability: Free, Available for download, Freely available

Resource Name: Vertebrate Homology

Resource ID: SCR_017517

Record Creation Time: 20220129T080335+0000

Record Last Update: 20260905T132825+0000

Ratings and Alerts

No rating or validation information has been found for Vertebrate Homology.

No alerts have been found for Vertebrate Homology.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Singh S, et al. (2026) Temporal single-cell transcriptional dynamics of murine pancreatic islet remodeling during hyperglycaemia progression. *Molecular metabolism*, 110, 102387.

Yoshioka Y, et al. (2026) IL-1 delineates squalene-based adjuvant efficacy and reactogenicity in a cell-type-specific manner. *NPJ vaccines*, 11(1).

Su R, et al. (2026) The dynamic landscape and conserved regulation of the m6Am and m6A methylomes during the human and mouse oocyte-to-embryo transition. *Nucleic acids research*, 54(4).

Kamimae-Lanning AN, et al. (2026) Metabolite-induced DNA damage drives stochastic stem cell loss and clonal hematopoiesis. *Cell stem cell*, 33(4), 642.

Ma R, et al. (2025) Seizure evolution in a mouse model of West syndrome involves complex and time-dependent synapse remodeling, gliosis and alterations in lipid metabolism. *PLoS biology*, 23(10), e3003192.

Fan M, et al. (2025) Maternal Nutritional Status Governs Fetal Development by Modulating Imprinting Gene GAB1-Mediated Trophoblast Differentiation in the Placenta. *Cell proliferation*, 58(12), e70069.

Howe LJ, et al. (2025) Evaluating transportability of in vitro cellular models to in vivo human phenotypes using gene perturbation data. *Nature communications*, 17(1), 513.

Li Y, et al. (2025) The RNA m6A landscape during human oocyte-to-embryo transition. *The EMBO journal*, 44(14), 4150.

Avraham-Davidi I, et al. (2025) Spatially defined multicellular functional units in colorectal cancer revealed from single cell and spatial transcriptomics. *bioRxiv : the preprint server for biology*.

Avraham-Davidi I, et al. (2025) Spatially defined multicellular functional units in colorectal cancer revealed from single cell and spatial transcriptomics. *eLife*, 14.

Rahman MT, et al. (2025) Dexamethasone-eluting cochlear implants reduce inflammation and foreign body response in human and murine cochleae. *Scientific reports*, 15(1), 30615.

Yasumizu Y, et al. (2024) Single-cell transcriptome landscape of circulating CD4⁺ T_H17 cell populations in autoimmune diseases. *Cell genomics*, 4(2), 100473.

Hagenauer MH, et al. (2024) Resource: A curated database of brain-related functional gene sets (Brain.GMT). *MethodsX*, 13, 102788.

Soto DC, et al. (2024) Gene expansions contributing to human brain evolution. *bioRxiv* : the preprint server for biology.

Oommen AM, et al. (2024) Profiling muscle transcriptome in mice exposed to microgravity using gene set enrichment analysis. *NPJ microgravity*, 10(1), 94.

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

Petroff RL, et al. (2024) Translational toxicoepigenetic Meta-Analyses identify homologous gene DNA methylation reprogramming following developmental phthalate and lead exposure in mouse and human offspring. *Environment international*, 186, 108575.

Wang X, et al. (2023) The FSH-mTOR-CNP signaling axis initiates follicular antrum formation by regulating tight junction, ion pumps, and aquaporins. *The Journal of biological chemistry*, 299(8), 105015.

Zhang M, et al. (2023) Neuronal Histone Methyltransferase EZH2 Regulates Neuronal Morphogenesis, Synaptic Plasticity, and Cognitive Behavior in Mice. *Neuroscience bulletin*, 39(10), 1512.

Freshour SL, et al. (2023) Endothelial cells are a key target of IFN- γ during response to combined PD-1/CTLA-4 ICB treatment in a mouse model of bladder cancer. *bioRxiv* : the preprint server for biology.