MouseCyc

RRID:SCR_001791
Type: Tool

Proper Citation

MouseCyc (RRID:SCR_001791)

Resource Information

URL: http://mousecyc.jax.org/

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Description: A manually curated database of both known and predicted metabolic pathways for the laboratory mouse. It has been integrated with genetic and genomic data for the laboratory mouse available from the Mouse Genome Informatics database and with pathway data from other organisms, including human. The database records for 1,060 genes in Mouse Genome Informatics (MGI) are linked directly to 294 pathways with 1,790 compounds and 1,122 enzymatic reactions in MouseCyc. (Aug. 2013) BLAST and other tools are available. The initial focus for the development of MouseCyc is on metabolism and includes such cell level processes as biosynthesis, degradation, energy production, and detoxification. MouseCyc differs from existing pathway databases and software tools because of the extent to which the pathway information in MouseCyc is integrated with the wealth of biological knowledge for the laboratory mouse that is available from the Mouse Genome Informatics (MGI) database.

Abbreviations: MouseCyc

Synonyms: MouseCyc database, Mouse Genome Informatics: MouseCyc database

Resource Type: database, analysis service resource, service resource, data or information resource, production service resource, data analysis service

Defining Citation: PMID:19682380

Keywords: energy production, biosynthesis, cell, cellular, degradation, detoxification, metabolism, mouse, physiological, enzymatic reaction, gene, disease, genome, metabolic pathway, pathway, compound, enzymatic reaction, protein, rna, reaction, blast, human,
mammal, genetic, genomic

**Funding Agency:** NHGRI

**Availability:** Acknowledgement requested

**Resource Name:** MouseCyc

**Resource ID:** SCR_001791

**Alternate IDs:** nif-0000-10303

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### Ratings and Alerts

No rating or validation information has been found for MouseCyc.

No alerts have been found for MouseCyc.

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### Data and Source Information

**Source:** [SciCrunch Registry](http://SciCrunch Registry)

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### Usage and Citation Metrics

We found 9 mentions in open access literature.

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


Kelly SA, et al. (2017) Prevention of tumorigenesis in mice by exercise is dependent on strain background and timing relative to carcinogen exposure. Scientific reports, 7, 43086.

