Resource Summary Report

Generated by RRID on Apr 28, 2025

MouseBook

RRID:SCR_006358
Type: Tool

Proper Citation

MouseBook (RRID:SCR_006358)

Resource Information

URL: http://www.mousebook.org/

Proper Citation: MouseBook (RRID:SCR_006358)

Description: Databases and portal to data and ordering mouse strains from MRC Harwell including mouse stocks in FESA (Frozen Embryo and Sperm Archive), mutants from the mutagenesis screen, the ENU DNA archive, standardized phenotyping procedures, imprinting genes and chromosome anomalies. The portal integrates curated information from the MRC Harwell stock resource, and other Harwell databases, with information from external data resources to provide added value information above and beyond what is available through other routes such as IMSR (International Mouse Stain Resource). MouseBook can be searched either using an intuitive Google-style free text search or using the Mammalian Phenotype Ontology (MP) tree structure. Text searches can be on gene, allele, strain identifier (e.g. MGI ID) or phenotype term and are assisted by automatic recognition of term types and autocompletion of gene and allele names covered by the database. Results are returned in a tabbed format providing categorized results identified from each of the catalogs in MouseBook. Individual results lines from each catalog include information on gene, allele, chromosomal location and phenotype and provide a simple click-through link to further information as well as ordering the strain. The infrastructure underlying MouseBook has been designed to be extensible, allowing additional data sources to be added enabling other sites to make their data directly available through MouseBook.

Abbreviations: MouseBook

Synonyms: Mouse Book

Resource Type: biomaterial supply resource, material resource, organism supplier

Defining Citation: PMID:19854936

Keywords: mutant mouse strain, gene, allele, phenotype, embryonic mouse, embryo, sperm, live, chromosomal location, mutant mouse line, imprint, standard operating procedure, bio.tools

Related Condition: Motor neuron disease, Chromosomal anomaly

Funding: MRC

Availability: Public

Resource Name: MouseBook

Resource ID: SCR_006358

Alternate IDs: nlx_152127, biotools:mousebook

Alternate URLs: https://bio.tools/mousebook

Record Creation Time: 20220129T080235+0000

Record Last Update: 20250428T053225+0000

Ratings and Alerts

No rating or validation information has been found for MouseBook.

No alerts have been found for MouseBook.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Ishihara T, et al. (2022) Presence of H3K4me3 on Paternally Expressed Genes of the Paternal Genome From Sperm to Implantation. Frontiers in cell and developmental biology, 10, 838684.

Santini L, et al. (2021) Genomic imprinting in mouse blastocysts is predominantly associated with H3K27me3. Nature communications, 12(1), 3804.

Betto RM, et al. (2021) Metabolic control of DNA methylation in naive pluripotent cells. Nature genetics, 53(2), 215.

Scagliotti V, et al. (2021) Dynamic Expression of Imprinted Genes in the Developing and Postnatal Pituitary Gland. Genes, 12(4).

Fenno LE, et al. (2020) Comprehensive Dual- and Triple-Feature Intersectional Single-Vector Delivery of Diverse Functional Payloads to Cells of Behaving Mammals. Neuron, 107(5), 836.

Brown SDM, et al. (2020) Precision and Functional Genomics. Mammalian genome : official journal of the International Mammalian Genome Society, 31(1-2), 1.

Chan WH, et al. (2019) RNA-seq of Isolated Chromaffin Cells Highlights the Role of Sex-Linked and Imprinted Genes in Adrenal Medulla Development. Scientific reports, 9(1), 3929.

Kochmanski JJ, et al. (2018) Longitudinal Effects of Developmental Bisphenol A Exposure on Epigenome-Wide DNA Hydroxymethylation at Imprinted Loci in Mouse Blood. Environmental health perspectives, 126(7), 077006.

Potter PK, et al. (2016) Novel gene function revealed by mouse mutagenesis screens for models of age-related disease. Nature communications, 7, 12444.

Chen X, et al. (2015) Knockout of SRC-1 and SRC-3 in Mice Decreases Cardiomyocyte Proliferation and Causes a Noncompaction Cardiomyopathy Phenotype. International journal of biological sciences, 11(9), 1056.

Escott-Price V, et al. (2015) No Evidence for Enrichment in Schizophrenia for Common Allelic Associations at Imprinted Loci. PloS one, 10(12), e0144172.

Tasiou V, et al. (2015) A Mouse Model for Imprinting of the Human Retinoblastoma Gene. PloS one, 10(8), e0134672.

Al Adhami H, et al. (2015) A systems-level approach to parental genomic imprinting: the imprinted gene network includes extracellular matrix genes and regulates cell cycle exit and differentiation. Genome research, 25(3), 353.

Shen SQ, et al. (2014) Hybrid mice reveal parent-of-origin and Cis- and trans-regulatory effects in the retina. PloS one, 9(10), e109382.

Smith CL, et al. (2012) The Mammalian Phenotype Ontology as a unifying standard for experimental and high-throughput phenotyping data. Mammalian genome : official journal of the International Mammalian Genome Society, 23(9-10), 653.

van der Weyden L, et al. (2011) The mouse genetics toolkit: revealing function and

mechanism. Genome biology, 12(6), 224.

Trapp S, et al. (2011) Respiratory responses to hypercapnia and hypoxia in mice with genetic ablation of Kir5.1 (Kcnj16). Experimental physiology, 96(4), 451.

Tunster SJ, et al. (2011) BACs as tools for the study of genomic imprinting. Journal of biomedicine & biotechnology, 2011, 283013.