

Resource Summary Report

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Mouse Genome Project

RRID:SCR_013645

Type: Tool

Proper Citation

Mouse Genome Project (RRID:SCR_013645)

Resource Information

URL: <https://www.hgsc.bcm.edu/other-mammals/mouse-genome-project>

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Description: The goal of the mouse genome project is to determine the function of genes on mouse Chromosome 11 by saturating the chromosome with recessive mutations. The distal 40 cM of mouse Chr 11 exhibits linkage conservation with human Chromosome 17. We are using the chemical N-ethyl-N-nitrosourea (ENU) to saturate wild type chromosomes with point mutations. By determining the function of genes on a mouse chromosome, we can extrapolate to predict function on a human chromosome. We expect many of the new mutants to represent models of human diseases such as birth defects, patterning defects, growth and endocrine defects, neurological anomalies, and blood defects. Because many of the mutations we expect to isolate may be lethal or detrimental to the mice, we are using a unique approach to isolate mutations. This approach uses a balancer chromosome that is homozygous lethal and carries a dominant coat color marker to suppress recombination over a reasonable interval. On this site one can obtain a list of mutations on chromosome 11.

Synonyms: Mouse Genome Project

Resource Type: portal, topical portal, data or information resource

Keywords: mutant, bac mapping, enu mutagenesis, mouse, development, defect

Resource Name: Mouse Genome Project

Resource ID: SCR_013645

Alternate IDs: nif-0000-00557

Old URLs: <http://www.mouse-genome.bcm.tmc.edu>

Record Creation Time: 20220129T080317+0000

Record Last Update: 20260807T042811+0000

Ratings and Alerts

No rating or validation information has been found for Mouse Genome Project.

No alerts have been found for Mouse Genome Project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Sawant A, et al. (2025) Immune Checkpoint Blockade Delays Cancer Development and Extends Survival in DNA Polymerase Mutator Syndromes. Cancer research, 85(6), 1130.

Boles MK, et al. (2009) A mouse chromosome 4 balancer ENU-mutagenesis screen isolates eleven lethal lines. BMC genetics, 10, 12.