

Resource Summary Report

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JAX Neuroscience Mutagenesis Facility

RRID:SCR_007437

Type: Tool

Proper Citation

JAX Neuroscience Mutagenesis Facility (RRID:SCR_007437)

Resource Information

URL: <http://jaxmice.jax.org/list/ra1642.html>

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Description: Produce new neurological mouse models that could serve as experimental models for the exploration of basic neurobiological mechanisms and diseases. The impetus for the program resulted from the recognition that: * The value of genomic data would remain limited unless more information about the functionality of its individual components became available. * The task of linking genes to specific behavior would best be accomplished by employing a combination of different approaches. In an effort to complement already existing programs, the Neuroscience Mutagenesis Facility decided to use: a random, genome-wide approach to mutagenesis, i.e. N-ethyl-N-nitrosourea (ENU) as the mutagen; a three-generation back-cross breeding scheme to focus on the detection of recessive mutations; behavioral screens selective for the detection of phenotypes deemed useful for the program goals. The resulting mutant mouse lines have been available to the scientific community for the last five years and over 700 NMF mice have been sent to interested investigators for research; these mutant mouse lines will remain available as frozen embryos (which can be re-derived on request) and can be ordered through the JAX customer service at 1-800-422-6423 (or 207-288-5845). The results of the work of the Neuroscience Mutagenesis Facility and that of two other neurogenesis centers, i.e. The Neurogenomics Project at Northwestern University, and the Neuromutagenesis Project of the Tennessee Mouse Genome Consortium, can also be seen at Neuromice.org, a common web site of these three research centers; in addition, information about all mutants produced by these groups has been recorded in MGI.

Abbreviations: NMU

Synonyms: JAX Neuromutagenesis Facility, JAX - Neuroscience Mutagenesis Facility, Neuromutagenesis Facility, Neuroscience Mutagenesis Facility of the Jackson Laboratory

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

Keywords: mouse model, mutant mouse line, mutant mouse, phenodeviant, phenodeviant mouse, heritability, phenotyping, genetic mapping

Related Condition: Neurobiological disease, Neurological disorder, Sensory disorder, Behavioral disorder, Aging

Funding: NIDA ;
NIMH ;
NINDS ;
NEI ;
NIA ;
NIAAA ;
NIDCD

Availability: Public, Available to the scientific community

Resource Name: JAX Neuroscience Mutagenesis Facility

Resource ID: SCR_007437

Alternate IDs: nif-0000-00784

Old URLs: <http://nmf.jax.org/>

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260808T185908+0000

Ratings and Alerts

No rating or validation information has been found for JAX Neuroscience Mutagenesis Facility.

No alerts have been found for JAX Neuroscience Mutagenesis Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Han F, et al. (2012) A new mouse mutant of the Cdh23 gene with early-onset hearing loss facilitates evaluation of otoprotection drugs. The pharmacogenomics journal, 12(1), 30.