

Resource Summary Report

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NeuroMouse Database

RRID:SCR_001143

Type: Tool

Proper Citation

NeuroMouse Database (RRID:SCR_001143)

Resource Information

URL: <http://phm.utoronto.ca/~jeffh/neuromouse.htm>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on February 17, 2023. Toolbook(tm) based, interactive graphical database which provides structural, molecular, and genetic information on the adult murine nervous system; and its relevance to human neurobiology. This resource is primarily designed as a platform for users to interact, each sharing knowledge on their own area of expertise, which is compiled to a master database. This hypertext atlas presently comprises more than 1000 pages and is designed to provide a flexible integrated resource for the description and discussion of all forms mammalian neurologic data. Version 4.0 of the NeuroMouse program extends the program's basic framework to include a number of areas in modern molecular neurobiology. This system provides an integrated resource for the characterization and description of mammalian neurological data. Major divisions include: Neural Atlas, Molecular Atlas, Genetics/Surgical Lesion Atlas. Neuromouse has been integrated into our strain-specific three dimensional MRI and surgical atlases of the murine CNS. Database contents: Neural Atlas: - Rotational representation of the murine brain. - Neural structures: visual and alphabetic point and click index of neural structures, pathways and systems. - Brain atlas: photographic serial sections in the coronal, sagittal, and horizontal planes (average plate distance - 300 um). Physical brain distances are also provided as are meta-index grids to allow rapid movement between different planes and regions. # Catalog of primary and immortalized neural cells indexed to relevant neural structures. Molecular Atlas: - Index of neurotransmitters: Acetylcholine, GABA, Glutamate, Aspartate, Glycine, Dopamine, Norepinephrine, Epinephrine, Serotonin (synthesis, distribution, degradation, molecular modules, receptors, subunits, agonists, antagonists, gene structure, localization, physical properties and transgenics are indicated for each item). - Index of neurotrophins / neurokinins: NGF, BDNF, NT-3, NT-4/5, CNTF, LIF, Onostatin M, IL-6, GDNF, FGF's, S100b (ligand, receptors, expression pattern, physical properties, homologous factors, transgenics/knockouts, chromosomal location, effects of agent, and effects of factors on agent are indicated for each item). - Index of additional neural agents: Bcl-2, TNF/Fas, TGF-beta, P53/Rb, PDGF, EGF family (ligand, receptor, expression

patterns, physical properties, homologous factors, transgenics/ knockouts, chromosomal location, effects of agent, effects of factors on agent are indicated for each item). - Molecular biology: Molecular biology of important neural genes with integrated links, plus selected neural topics (ex. programmed cell death, inducible gene systems, protein motifs, neural gene elements, and selected signal transduction pathways). Genetics Atlas: - Lesion paradigms: Index of common neuronal structural and chemical lesion paradigms. - Selected procedures: description of common neurosurgical, cell tracing, culturing and laboratory procedures. - Neurologic syndromes: Index of important human neurologic syndromes and appropriate animals models. - Neural mutant database: Index and description of naturally occurring and genetically modified murine neurologic mutations; including pages on double knockout animals. Interactive maps of each murine chromosome and human syntenic maps.

Abbreviations: NeuroMouse

Resource Type: data or information resource, storage service resource, data repository, database, atlas, service resource

Keywords: epinephrine, gaba, acetylcholine, agonist, antagonist, aspartate, dopamine, glutamate, glycine, human, molecular biology, murine chromosome, mutant, neural, neural factor, neurokinin, neurologic, neurotransmitter, neurotrophin, norepinephrine, serotonin, molecular neuroanatomy resource, nervous system, adult, murine

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: NeuroMouse Database

Resource ID: SCR_001143

Alternate IDs: nif-0000-11000

Record Creation Time: 20220129T080205+0000

Record Last Update: 20260819T044021+0000

Ratings and Alerts

No rating or validation information has been found for NeuroMouse Database.

No alerts have been found for NeuroMouse Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.