

Resource Summary Report

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Mouse Biomedical Informatics Research Network

RRID:SCR_003392

Type: Tool

Proper Citation

Mouse Biomedical Informatics Research Network (RRID:SCR_003392)

Resource Information

URL: <http://www.loni.usc.edu/BIRN/Projects/Mouse/>

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Description: Animal model data primarily focused on mice including high resolution MRI, light and electron microscopic data from normal and genetically modified mice. It also has atlases, and the Mouse BIRN Atlasing Toolkit (MBAT) which provides a 3D visual interface to spatially registered distributed brain data acquired across scales. The goal of the Mouse BIRN is to help scientists utilize model organism databases for analyzing experimental data. Mouse BIRN has ended. The next phase of this project is the Mouse Connectome Project (<https://www.nitrc.org/projects/mcp/>). The Mouse BIRN testbeds initially focused on mouse models of neurodegenerative diseases. Mouse BIRN testbed partners provide multi-modal, multi-scale reference image data of the mouse brain as well as genetic and genomic information linking genotype and brain phenotype. Researchers across six groups are pooling and analyzing multi-scale structural and functional data and integrating it with genomic and gene expression data acquired from the mouse brain. These correlated multi-scale analyses of data are providing a comprehensive basis upon which to interpret signals from the whole brain relative to the tissue and cellular alterations characteristic of the modeled disorder. BIRN's infrastructure is providing the collaborative tools to enable researchers with unique expertise and knowledge of the mouse an opportunity to work together on research relevant to pre-clinical mouse models of neurological disease. The Mouse BIRN also maintains a collaborative Web Wiki, which contains announcements, an FAQ, and much more.

Abbreviations: MouseBIRN, mBIRN

Synonyms: Mouse BIRN

Resource Type: atlas, reference atlas, data or information resource, data set

Keywords: electron microscopy, expression, functional, gene, 3-dimensional, brain, cellular, disorder, genomic, genotype, mouse, neurodegenerative disease, phenotype, molecular neuroanatomy resource, mri, light microscopy, model organism, gene expression, atlas data, imaging genomics, magnetic resonance

Related Condition: Normal, Neurodegenerative disease, Multiple Sclerosis, Alzheimer's disease, Parkinson's disease

Funding: NIH ;
Collaborative Tools Support Network Award ;
NCRR 1U24-RR025736;
NCRR U24-RR021992;
NCRR U24-RR021760;
NCRR 1U24-RR026057-01

Availability: BIRN License

Resource Name: Mouse Biomedical Informatics Research Network

Resource ID: SCR_003392

Alternate IDs: nif-0000-00200

Alternate URLs: <http://www.nitrc.org/projects/mousebirn>

Old URLs: <http://www.loni.ucla.edu/BIRN/Projects/Mouse/index.shtml>

Record Creation Time: 20220129T080218+0000

Record Last Update: 20250503T055619+0000

Ratings and Alerts

No rating or validation information has been found for Mouse Biomedical Informatics Research Network.

No alerts have been found for Mouse Biomedical Informatics Research Network.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.