

Resource Summary Report

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Mouse BIRN Atlasing Toolkit

RRID:SCR_002814

Type: Tool

Proper Citation

Mouse BIRN Atlasing Toolkit (RRID:SCR_002814)

Resource Information

URL: <http://www.loni.usc.edu/Software/MBAT>

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Description: Workflow environment bringing together heterogenous, online biological image resources, a user's image data and biological atlases in a concise, unified and intuitive workspace. The MBAT viewer displays multiple images on a single virtual canvas allowing easy side-by-side comparisons and image compositing. MBAT is written in Java so it is platform independent and is highly extensible through it's plugin architecture. MBAT integrates three distinct workspaces for online search, image alignment (registration) and image display: * Search Workspace: able to submit a query to multiple databases simultaneously and online literature searches. * Registration Workspace: performs 2D landmark based registration. * Viewer Workspace: displays & composites images and image volumes using high performance graphics hardware. * Atlas Viewer: allows navigation and interrogation of volumetric atlases. * Hierarchy Editor: create logical groupings of atlas labels.

Abbreviations: MBAT

Synonyms: MouseBIRN Atlasing Toolkit

Resource Type: data processing software, data visualization software, image analysis software, software application, software resource

Defining Citation: [PMID:21176225](#)

Keywords: gene expression, microarray, light microscopy, electron microscopy, mri imaging, analyze, gnome, java, kde, magnetic resonance, nifti, os independent, win32 (ms windows), mri, registration, alignment

Funding: NCRR U24 RR021760

Availability: Free, Freely available, Available for download

Resource Name: Mouse BIRN Atlasing Toolkit

Resource ID: SCR_002814

Alternate IDs: nif-0000-00039

Old URLs: <http://mbat.loni.ucla.edu/>

License: BIRN License

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260905T132454+0000

Ratings and Alerts

No rating or validation information has been found for Mouse BIRN Atlasing Toolkit.

No alerts have been found for Mouse BIRN Atlasing Toolkit.

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 [PRECISE-TBI](#) .

Delora A, et al. (2016) A simple rapid process for semi-automated brain extraction from magnetic resonance images of the whole mouse head. Journal of neuroscience methods, 257, 185.

Boline J, et al. (2008) Digital atlases as a framework for data sharing. Frontiers in neuroscience, 2(1), 100.