

Resource Summary Report

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3D MRI Atlas of Mouse Development

RRID:SCR_008090

Type: Tool

Proper Citation

3D MRI Atlas of Mouse Development (RRID:SCR_008090)

Resource Information

URL: <http://mouseatlas.caltech.edu/>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE, documented May 10, 2017. A pilot effort that has developed a centralized, web-based biospecimen locator that presents biospecimens collected and stored at participating Arizona hospitals and biospecimen banks, which are available for acquisition and use by researchers. Researchers may use this site to browse, search and request biospecimens to use in qualified studies. The development of the ABL was guided by the Arizona Biospecimen Consortium (ABC), a consortium of hospitals and medical centers in the Phoenix area, and is now being piloted by this Consortium under the direction of ABRC. You may browse by type (cells, fluid, molecular, tissue) or disease. Common data elements decided by the ABC Standards Committee, based on data elements on the National Cancer Institute's (NCI's) Common Biorepository Model (CBM), are displayed. These describe the minimum set of data elements that the NCI determined were most important for a researcher to see about a biospecimen. The ABL currently does not display information on whether or not clinical data is available to accompany the biospecimens. However, a requester has the ability to solicit clinical data in the request. Once a request is approved, the biospecimen provider will contact the requester to discuss the request (and the requester's questions) before finalizing the invoice and shipment. The ABL is available to the public to browse. In order to request biospecimens from the ABL, the researcher will be required to submit the requested required information. Upon submission of the information, shipment of the requested biospecimen(s) will be dependent on the scientific and institutional review approval. Account required. Registration is open to everyone.. Documented on October, 01, 2019.

3D digital atlas of normal mouse development constructed from magnetic resonance image data. The download is a zipped file containing the six atlases Theiler Stages (ts) 13, 21, 23, 24, 25 and 26 and MRI data for an unlabeled ts19 embryo. To view the atlases, download and install MBAT from: <http://mbat.loni.ucla.edu> Specimens were prepared in aqueous, isotonic solutions to avoid tissue shrinkage. Limited specimen handling minimized physical perturbation of the embryos to ensure accurate geometric

representations of developing mouse anatomy. Currently, the atlas contains orthogonal sections through MRI volumes, three stages of embryos that have annotated anatomy, photographs of several stages of development, lineage trees for annotated embryos and a gallery of images and movies derived from the annotations. Anatomical annotations can be viewed by selecting a transverse section and selecting a pixel on the displayed slice.

Abbreviations: MRI Atlas of Mouse Development,

Synonyms: Caltech micro MRI Atlas of Mouse Development, microMRI Atlas of Mouse Development, Caltech MRI Atlas of Mouse Development, micro MRI Atlas of Mouse Development

Resource Type: atlas, data or information resource

Defining Citation: [PMID:10091864](#)

Keywords: embryo, embryogenesis, development, magnetic resonance imaging, mouse, developing, c57bl/6, development, anatomy, embryonic mouse

Related Condition: Normal

Funding: Human Brain Project ;
Biomedical Informatics Research Network ;
Beckman Institute at Caltech ;
NCRR ;
NIBIB

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: 3D MRI Atlas of Mouse Development

Resource ID: SCR_008090

Alternate IDs: nif-0000-10989

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260801T042642+0000

Ratings and Alerts

No rating or validation information has been found for 3D MRI Atlas of Mouse Development.

No alerts have been found for 3D MRI Atlas of Mouse Development.

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 [PRECISE-TBI](#) .

Megason SG, et al. (2003) Digitizing life at the level of the cell: high-performance laser-scanning microscopy and image analysis for in toto imaging of development. Mechanisms of development, 120(11), 1407.