Resource Summary Report

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EPMBA.ORG: Electronic Prenatal Mouse Brain Atlas

RRID:SCR_001882
Type: Tool

Proper Citation

EPMBA.ORG: Electronic Prenatal Mouse Brain Atlas (RRID:SCR_001882)

Resource Information

URL: http://www.epmba.org/

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Description: The Electronic Prenatal Mouse Brain Atlas, EPMBA, at present consists of two sets of annotated images of coronal sections from Gestational Day (GD) 12 heads and GD 16 brains of C57BL/6J mice. Ten micron thick sections were stained with hematoxylin and eosin. Images were prepared at various resolutions for annotations and for high resolution presentation. A subset of sections were annotated and linked to anatomical terms. Additionally, horizontal sections of a GD 12 head were aligned and re-assembled into a 3D volume for digital sectioning in arbitrarily oblique planes. These images were captured using a Nikon E800 stereomicroscope with a 10X objective. The resolution is 1.35 pixels/micrometer. The PC program used to grab the images, Microbrightfield's Neurolucida (version 6), stitched together a mosaic of between 10 and 50 high-res images for each tissue slice, while the user focused the scope for each mosaic tile. Since the nature of optic lenses is to focus on one central point, it was difficult to obtain a uniformly-focused field of vision; as such, small areas of these images are blurred. Images were then transferred to a Macintosh and processed in Adobe Photoshop (version 7). Color levels were adjusted for maximum clarity of the tissue, and areas surrounding the tissue were cleared of artifacts. Each image is approximately 3350 pixels wide by 2650 pixels high. A scale bar with a length of 1350 pixels/mm is visible in the lower right-hand corner of each image. The annotations have been completed for the Atlas of Developing Mouse Brain Gestational (Embryonic) Day 12 (7/5/07) as well as the Atlas of Developing Mouse Brain Embryonic Day 16 (4/26/07). The 3D EPMBA data set has been mounted on a NeuroTerrain Atlas Server (NtAS). (6/27/07).

Abbreviations: EPMBA

Synonyms: EPMBA.org, Electronic Prenatal Mouse Brain Atlas

Resource Type: atlas, data or information resource

Keywords: embryonic, brain, c57bl/6j, coronal, developing, developmental, gestational, head, horizontal sections, image, mouse, prenatal

Funding: Human Brain Project ;
NIMH 263-MD-414639

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: EPMBA.ORG: Electronic Prenatal Mouse Brain Atlas

Resource ID: SCR_001882

Alternate IDs: nif-0000-10452

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260904T000109+0000

Ratings and Alerts

No rating or validation information has been found for EPMBA.ORG: Electronic Prenatal Mouse Brain Atlas.

No alerts have been found for EPMBA.ORG: Electronic Prenatal Mouse Brain Atlas.

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 dkNET .

Charnay Y, et al. (2008) Clusterin expression during fetal and postnatal CNS development in mouse. Neuroscience, 155(3), 714.