Resource Summary Report

Generated by RRID on Apr 8, 2025

KESM brain atlas

RRID:SCR_001559
Type: Tool

Proper Citation

KESM brain atlas (RRID:SCR_001559)

Resource Information

URL: http://kesm.cs.tamu.edu

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Description: A web-based, light-weight 3D volume viewer that serves large volumes (typically the whole brain) of high-resolution mouse brain images (~1.5 TB per brain, ~1 um resolution) from the Knife-Edge Scanning Microscope (KESM), invented by Bruce H. McCormick. Currently, KESMBA serves the following data sets: * Mouse: Whole-brain-scale Golgi (acquired 2008 spring): neuronal morphology: Choe et al. (2009) * Mouse: Whole-brain India Ink (acquired 2008 spring): vascular network: Choe et al. (2009); Mayerich et al. (2011); * Mouse: Whole-brain Golgi (acquired 2011 summer): neuronal morphology: Choe et al. (2011); Chung et al. (2011); * Mouse: Whole-brain Nissl (acquired 2009-2010 winter): somata (Choe et al. 2010) (Coming soon) They will ship you the full data set on a hard drive if you provide them with the hard drive and shipping cost.

Abbreviations: KESMBA

Synonyms: KESMBA: Knife-Edge Scanning Microscope Brain Atlas, Knife-Edge Scanning Microscope Brain Atlas

Resource Type: atlas, source code, data or information resource, software resource

Defining Citation: PMID:22275895

Keywords: golgi stain, 3d image, brain, connectomics, data set

Funding: NINDS 1R01-NS54252

Resource Name: KESM brain atlas

Resource ID: SCR_001559

Alternate IDs: nlx_152869

Record Creation Time: 20220129T080208+0000

Record Last Update: 20250407T215219+0000

Ratings and Alerts

No rating or validation information has been found for KESM brain atlas.

No alerts have been found for KESM brain atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID.

Guo J, et al. (2019) Accurate flow in augmented networks (AFAN): an approach to generating three-dimensional biomimetic microfluidic networks with controlled flow. Analytical methods : advancing methods and applications, 11(1), 8.

Zaslavsky I, et al. (2014) Cyberinfrastructure for the digital brain: spatial standards for integrating rodent brain atlases. Frontiers in neuroinformatics, 8, 74.

Choe Y, et al. (2011) Specimen preparation, imaging, and analysis protocols for knife-edge scanning microscopy. Journal of visualized experiments : JoVE(58).