Resource Summary Report

Generated by NIF on May 23, 2025

3DBar

RRID:SCR_008896
Type: Tool

Proper Citation

3DBar (RRID:SCR_008896)

Resource Information

URL: http://www.3dbar.org

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Description: Software package for reconstructing three-dimensional models of brain structures from 2-D delineations using a customizable and reproducible workflow. 3dBAR also works as an on-line service (http://service.3dbar.org) offering a variety of functions for the hosted datasets: * downloading reconstructions of desired brain structures in predefined quality levels in various supported formats as well as created using customizable settings, * previewing models as bitmap thumbnails and (for webGL enabled browsers) interactive manipulation (zooming, rotating, etc.) of the structures, * downloading slides from available datasets as SVG drawings. 3dBAR service can also be used by other websites or applications to enhance their functionality. * Operating System: Linux * Programming Language: Python * Supported Data Format: NIfTI-1, Other Format, VRML

Abbreviations: 3dBAR

Synonyms: 3D BAR, 3d Brain Atlas Reconstructor

Resource Type: service resource, atlas, reference atlas, analysis service resource, software resource, data or information resource, production service resource

Defining Citation: PMID:22227717

Keywords: 3d, reconstruction, brain structure, brain, algorithm or reusable library, web service, atlas application, three dimensional display, spinal cord, sensory system, waxholm space

Funding:

Availability: GNU General Public License

Resource Name: 3DBar

Resource ID: SCR_008896

Alternate IDs: nlx_151380

Alternate URLs: http://www.nitrc.org/projects/bar3d, http://service.3dbar.org, http://www.3dbar.org:8080/, http://3dbar.org

Record Creation Time: 20220129T080249+0000

Record Last Update: 20250523T054731+0000

Ratings and Alerts

No rating or validation information has been found for 3DBar.

No alerts have been found for 3DBar.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Jiricek S, et al. (2020) Electrical Source Imaging in Freely Moving Rats: Evaluation of a 12-Electrode Cortical Electroencephalography System. Frontiers in neuroinformatics, 14, 589228.

Ramadi KB, et al. (2020) Computationally Guided Intracerebral Drug Delivery via Chronically Implanted Microdevices. Cell reports, 31(10), 107734.

Majka P, et al. (2016) Towards a comprehensive atlas of cortical connections in a primate brain: Mapping tracer injection studies of the common marmoset into a reference digital template. The Journal of comparative neurology, 524(11), 2161.

Zakiewicz IM, et al. (2015) Three-Dimensional Histology Volume Reconstruction of Axonal Tract Tracing Data: Exploring Topographical Organization in Subcortical Projections from Rat Barrel Cortex. PloS one, 10(9), e0137571.

Bakker R, et al. (2015) The Scalable Brain Atlas: Instant Web-Based Access to Public Brain Atlases and Related Content. Neuroinformatics, 13(3), 353.

Majka P, et al. (2013) 3D brain atlas reconstructor service--online repository of three-dimensional models of brain structures. Neuroinformatics, 11(4), 507.