Resource Summary Report

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Connectome Mapping Toolkit

RRID:SCR_001644
Type: Tool

Proper Citation

Connectome Mapping Toolkit (RRID:SCR_001644)

Resource Information

URL: http://connectome.ch/

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Description: A Python-based open source toolkit for magnetic resonance connectome mapping, data management, sharing, visualization and analysis. The toolkit includes the connectome mapper (a full DMRI processing pipeline), a new file format for multi modal data and metadata, and a visualization application.

Abbreviations: Connectome Mapping Toolkit

Resource Type: data set, software resource, data or information resource, data management software, software toolkit, software application, image analysis software, image processing software, data processing software

Defining Citation: PMID:21713110

Keywords: magnetic resonance, connectome, mapping, data management, data sharing, visualization, analysis, connectome mapper, processing pipeline, python, connectomics, multi-modal, network analysis, neuroimaging, neuroinformatics tool, mri, knowledge-base, semantic, technology, mapping, source code

Funding: Swiss National Science Foundation 33CM30-124089

Availability: Open unspecified license

Resource Name: Connectome Mapping Toolkit

Resource ID: SCR_001644

Alternate IDs: nlx_153920

Alternate URLs: http://www.cmtk.org/, http://www.connectome.ch/

Record Creation Time: 20220129T080208+0000

Record Last Update: 20250416T063241+0000

Ratings and Alerts

No rating or validation information has been found for Connectome Mapping Toolkit.

No alerts have been found for Connectome Mapping Toolkit.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Munsell BC, et al. (2019) Relationship between neuronal network architecture and naming performance in temporal lobe epilepsy: A connectome based approach using machine learning. Brain and language, 193, 45.

de Bézenac C, et al. (2019) Investigating imaging network markers of cognitive dysfunction and pharmacoresistance in newly diagnosed epilepsy: a protocol for an observational cohort study in the UK. BMJ open, 9(10), e034347.

Bonilha L, et al. (2015) Reproducibility of the Structural Brain Connectome Derived from Diffusion Tensor Imaging. PloS one, 10(8), e0135247.

Moreau T, et al. (2015) Ontology-based approach for in vivo human connectomics: the medial Brodmann area 6 case study. Frontiers in neuroinformatics, 9, 9.

Munsell BC, et al. (2015) Evaluation of machine learning algorithms for treatment outcome prediction in patients with epilepsy based on structural connectome data. NeuroImage, 118, 219.

Kocher M, et al. (2015) Individual variability in the anatomical distribution of nodes participating in rich club structural networks. Frontiers in neural circuits, 9, 16.

DeSalvo MN, et al. (2014) Task-dependent reorganization of functional connectivity networks during visual semantic decision making. Brain and behavior, 4(6), 877.