

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: <https://www.cmtk.org/>

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

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: Free, Available for download, Freely available

Resource Name: Connectome Mapping Toolkit

Resource ID: SCR_001644

Alternate IDs: nlx_153920

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

License: Open unspecified license

Record Creation Time: 20220129T080208+0000

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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 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Adan GH, et al. (2022) Protocol for an observational cohort study investigating biomarkers predicting seizure recurrence following a first unprovoked seizure in adults. BMJ open, 12(12), e065390.

Szalkai B, et al. (2021) The Graph of Our Mind. Brain sciences, 11(3).

Varga B, et al. (2021) The braingraph.org database with more than 1000 robust human connectomes in five resolutions. Cognitive neurodynamics, 15(5), 915.

de B??zenac 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.

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.

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.

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.

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.

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