

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 [kravitz2](#) .

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.