Resource Summary Report

Generated by ASWG on Aug 2, 2026

ConnectomeDB

RRID:SCR_004830
Type: Tool

Proper Citation

ConnectomeDB (RRID:SCR_004830)

Resource Information

URL: http://humanconnectome.org/connectome/connectomeDB.html

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Description: Data management platform that houses all data generated by the Human Connectome Project - image data, clinical evaluations, behavioral data and more. ConnectomeDB stores raw image data, as well as results of analysis and processing pipelines. Using the ConnectomeDB infrastructure, research centers will be also able to manage Connectome-like projects, including data upload and entry, quality control, processing pipelines, and data distribution. ConnectomeDB is designed to be a data-mining tool, that allows users to generate and test hypotheses based on groups of subjects. Using the ConnectomeDB interface, users can easily search, browse and filter large amounts of subject data, and download necessary files for many kinds of analysis. ConnectomeDB is designed to work seamlessly with Connectome Workbench, an interactive, multidimensional visualization platform designed specifically for handling connectivity data. De-identified data within ConnectomeDB is publicly accessible. Access to additional data may be available to qualified research investigators. ConnectomeDB is being hosted on a BlueArc storage platform housed at Washington University through the year 2020. This data platform is based on XNAT, an open-source image informatics software toolkit developed by the NRG at Washington University. ConnectomeDB itself is fully open source.

Abbreviations: ConnectomeDB

Resource Type: data or information resource, data repository, storage service resource, image repository, database, service resource, image collection

Defining Citation: PMID:22366334

Keywords: brain, connectivity, human, adult human, evaluation, clinical, behavior, data set, diffusion imaging, resting-state fmri, task-evoked fmri, t1-weighted mri, t2-weighted mri, structural mapping, myelin mapping, magnetoencephalography, electroencephalography, fmri, twin

Related Condition: Healthy, Twin, Non-twin sibling

Funding: NIH Blueprint for Neuroscience Research ;
Washington University in St. Louis; Missouri; USA ;
McDonnell Center for Systems Neuroscience ;
NIMH 1U54MH091657

Availability: Account required, Open unspecified license, Acknowledgement required, See Data Use Terms, The community can contribute to this resource

Resource Name: ConnectomeDB

Resource ID: SCR_004830

Alternate IDs: nlx_143923

Record Creation Time: 20220129T080226+0000

Record Last Update: 20260801T190733+0000

Ratings and Alerts

No rating or validation information has been found for ConnectomeDB.

No alerts have been found for ConnectomeDB.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 56 mentions in open access literature.

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

Madan Mohan V, et al. (2025) Event-Marked Windowed Communication: Inferring Activity Propagation from Neural Time Series. Human brain mapping, 46(8), e70223.

Nishio M, et al. (2025) Humans have a longer period of cortical maturation across depth and hierarchy than macaques. PLoS biology, 23(9), e3003378.

Tubiolo PN, et al. (2024) Characterization and Mitigation of a Simultaneous Multi-Slice fMRI Artifact: Multiband Artifact Regression in??Simultaneous Slices. Human brain mapping, 45(16), e70066.

Motevasseli M, et al. (2024) Distinct tumor-TAM interactions in IDH-stratified glioma microenvironments unveiled by single-cell and spatial transcriptomics. Acta neuropathologica communications, 12(1), 133.

Ganglberger F, et al. (2024) BrainTACO: an explorable multi-scale multi-modal brain transcriptomic and connectivity data resource. Communications biology, 7(1), 730.

Dai W, et al. (2024) Heritability and genetic contribution analysis of structural-functional coupling in human brain. Imaging neuroscience (Cambridge, Mass.), 2.

Maddaluno O, et al. (2024) Encoding Manual Dexterity through Modulation of Intrinsic ?? Band Connectivity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(20).

Kulkarni AP, et al. (2023) Genetic and environmental influence on resting state networks in young male and female adults: a cartographer mapping study. Human brain mapping, 44(16), 5238.

Nenning KH, et al. (2023) Omnipresence of the sensorimotor-association axis topography in the human connectome. NeuroImage, 272, 120059.

Guo Z, et al. (2023) Improved brain community structure detection by two-step weighted modularity maximization. PloS one, 18(12), e0295428.

Willbrand EH, et al. (2023) Neuroanatomical and functional dissociations between variably present anterior lateral prefrontal sulci. bioRxiv : the preprint server for biology.

Mummaneni A, et al. (2023) Functional brain connectivity predicts sleep duration in youth and adults. Human brain mapping, 44(18), 6293.

Atilano-Barbosa D, et al. (2023) Brain morphological variability between whites and African Americans: the importance of racial identity in brain imaging research. Frontiers in integrative neuroscience, 17, 1027382.

Gruskin DC, et al. (2022) Brain connectivity at rest predicts individual differences in normative activity during movie watching. NeuroImage, 253, 119100.

Ali TS, et al. (2022) Gradual changes in microarchitectural properties of cortex and juxtacortical white matter: Observed by anatomical and diffusion MRI. Magnetic resonance in medicine, 88(6), 2485.

Whi W, et al. (2022) Characteristic functional cores revealed by hyperbolic disc embedding and k-core percolation on resting-state fMRI. Scientific reports, 12(1), 4887.

Tripathi V, et al. (2022) Weak task synchronization of default mode network in task based paradigms. NeuroImage, 251, 118940.

Kardan O, et al. (2022) Differences in the functional brain architecture of sustained attention and working memory in youth and adults. PLoS biology, 20(12), e3001938.

Wu J, et al. (2022) Cross-cohort replicability and generalizability of connectivity-based psychometric prediction patterns. NeuroImage, 262, 119569.

Pourmotabbed H, et al. (2022) Reproducibility of graph measures derived from resting-state MEG functional connectivity metrics in sensor and source spaces. Human brain mapping, 43(4), 1342.