

Resource Summary Report

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USC Multimodal Connectivity Database

RRID:SCR_012809

Type: Tool

Proper Citation

USC Multimodal Connectivity Database (RRID:SCR_012809)

Resource Information

URL: <http://umcd.humanconnectomeproject.org>

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Description: Web-based repository and analysis site for connectivity matrices that have been derived from neuroimaging data including different imaging modalities, subject groups, and studies. Users can analyze connectivity matrices that have been shared publicly and upload their own matrices to share or analyze privately.

Abbreviations: UMCD

Synonyms: UCLA Connectivity Database, UCLA Multimodal Connectivity Database: Web-based brain network analysis and data sharing, UCLA Multimodal Connectivity Database

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

Defining Citation: [PMID:23226127](#), [PMID:20850551](#)

Keywords: fmri, dti, dsi, mri, eeg, meg, data set, image, computational hosting, connectivity, neuroimaging, data sharing, brain, rendering, diffusion-weighted mri, functional connectivity, graph theory, resting-state fmri, structural connectivity, image display, magnetic resonance, python, rendering, visualization, connectivity matrix, network, brain network, matrix, de-identified, male, female, apoe, child, adult

Related Condition: Normal, Lesioned, Attention deficit-hyperactivity disorder, Autism Spectrum Disorder, Obsessive-Compulsive Disorder, BDD, APOE 4/4, APOE 3/4, APOE 3/3, Alzheimer's disease

Funding: NRSA ;
NIH Blueprint for Neuroscience Research ;
NIA F31AG035438-01;

NIDA HHSN271200800035C

Availability: The community can contribute to this resource, Some features require an account

Resource Name: USC Multimodal Connectivity Database

Resource ID: SCR_012809

Alternate IDs: nlx_83091

Alternate URLs: <http://www.nitrc.org/projects/umcd>

Old URLs: <http://jessebrown.webfactional.com/welcome/default/index>

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Record Creation Time: 20220129T080312+0000

Record Last Update: 20260903T235140+0000

Ratings and Alerts

No rating or validation information has been found for USC Multimodal Connectivity Database.

No alerts have been found for USC Multimodal Connectivity Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

De Vico Fallani F, et al. (2025) Economical representation of spatial networks. PNAS nexus, 4(7), pgaf203.

Pathak A, et al. (2024) A hierarchy index for networks in the brain reveals a complex entangled organizational structure. Proceedings of the National Academy of Sciences of the United States of America, 121(27), e2314291121.

Normand F, et al. (2024) NBS-SNI, an extension of the network-based statistic: Abnormal functional connections between important structural actors. Network neuroscience (Cambridge, Mass.), 8(1), 44.

Yang Y, et al. (2023) Eigenmode-based approach reveals a decline in brain structure-function liberality across the human lifespan. Communications biology, 6(1), 1128.

Zanin M, et al. (2022) A Fast Transform for Brain Connectivity Difference Evaluation. *Neuroinformatics*, 20(2), 285.

Chen X, et al. (2021) The functional brain favours segregated modular connectivity at old age unless affected by neurodegeneration. *Communications biology*, 4(1), 973.

Ivanoska I, et al. (2021) Statistical and Machine Learning Link Selection Methods for Brain Functional Networks: Review and Comparison. *Brain sciences*, 11(6).

Chatterjee T, et al. (2021) Detecting network anomalies using Forman-Ricci curvature and a case study for human brain networks. *Scientific reports*, 11(1), 8121.

Benigni B, et al. (2021) Persistence of information flow: A multiscale characterization of human brain. *Network neuroscience (Cambridge, Mass.)*, 5(3), 831.

Rosen BQ, et al. (2021) A Whole-Cortex Probabilistic Diffusion Tractography Connectome. *eNeuro*, 8(1).

Takagi K, et al. (2021) Energy constraints on brain network formation. *Scientific reports*, 11(1), 11745.

Nuzzi D, et al. (2020) Synergistic information in a dynamical model implemented on the human structural connectome reveals spatially distinct associations with age. *Network neuroscience (Cambridge, Mass.)*, 4(3), 910.

Schirmer MD, et al. (2019) Network structural dependency in the human connectome across the life-span. *Network neuroscience (Cambridge, Mass.)*, 3(3), 792.

Zhang J, et al. (2019) Finding Community Modules of Brain Networks Based on PSO with Uniform Design. *BioMed research international*, 2019, 4979582.

Takagi K, et al. (2019) Principles of Mutual Information Maximization and Energy Minimization Affect the Activation Patterns of Large Scale Networks in the Brain. *Frontiers in computational neuroscience*, 13, 86.

van den Heuvel MP, et al. (2019) Evolutionary modifications in human brain connectivity associated with schizophrenia. *Brain : a journal of neurology*, 142(12), 3991.

Farooq H, et al. (2019) Network curvature as a hallmark of brain structural connectivity. *Nature communications*, 10(1), 4937.

Tang L, et al. (2019) A network clustering based feature selection strategy for classifying autism spectrum disorder. *BMC medical genomics*, 12(Suppl 7), 153.

Takagi K, et al. (2018) Information-Based Principle Induces Small-World Topology and Self-Organized Criticality in a Large Scale Brain Network. *Frontiers in computational neuroscience*, 12, 65.

van Dellen E, et al. (2018) Minimum spanning tree analysis of the human connectome. *Human brain mapping*, 39(6), 2455.