

Resource Summary Report

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GRETNA

RRID:SCR_009487

Type: Tool

Proper Citation

GRETNA (RRID:SCR_009487)

Resource Information

URL: <http://www.nitrc.org/projects/gretna/>

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Description: A graph theoretical network analysis toolbox which allows researchers to perform comprehensive analysis on the topology of brain connectome by integrating the most of network measures studied in current neuroscience field.

Abbreviations: GRETNA

Resource Type: data processing software, software resource, software application

Keywords: computational neuroscience, eeg, meg, electrocorticography, magnetic resonance, pet, spect

Availability: GNU General Public License

Resource Name: GRETNA

Resource ID: SCR_009487

Alternate IDs: nlx_155634

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260813T054957+0000

Ratings and Alerts

No rating or validation information has been found for GRETNA.

No alerts have been found for GRETNA.

Data and Source Information

Usage and Citation Metrics

We found 493 mentions in open access literature.

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

Raffin E, et al. (2026) Causal disconnectomics of motion perception networks: insights from transcranial magnetic stimulation-induced BOLD responses. *The Journal of physiology*, 604(1), 503.

Chen J, et al. (2026) Utilizing the DMN and DAN to Study the Effects of Acupuncture on Patients with Cognitive Impairment in Long COVID: A Pragmatic Randomized Controlled Trial Protocol. *Complementary medicine research*, 33(1), 31.

Qin Y, et al. (2026) Analysis of correlation between structural changes and functional response in post-stroke motor recovery after cM1 LF-rTMS: an exploratory randomized trial. *Scientific reports*, 16(1), 4460.

Wang X, et al. (2026) The Cerebellar Connectome Disruptions in Ischemic Stroke. *CNS neuroscience & therapeutics*, 32(1), e70759.

Wu Z, et al. (2026) Altered Brain Function and Network Topology in Patients With Acromegaly: Resting-State fMRI Study of Networks Related to Cognitive and Emotional Processing. *CNS neuroscience & therapeutics*, 32(1), e70755.

Zeng Z, et al. (2026) Machine learning for the diagnosis of fibromyalgia based on magnetic resonance imaging. *PloS one*, 21(2), e0340899.

Zhang X, et al. (2026) Genetic and molecular factors associated with changes in structural-functional coupling in medication-free obsessive-compulsive disorder. *Psychological medicine*, 56, e50.

Mai Z, et al. (2026) Altered Topological Properties of White-Matter Functional Networks in Young Smokers. *Addiction biology*, 31(2), e70125.

Ma YH, et al. (2026) Aberrant topology of the default mode network is associated with phosphatidylcholine and triglyceride levels in major depressive disorder. *World journal of psychiatry*, 16(2), 113513.

Zhang L, et al. (2026) Abnormal imaging features of episodic cluster headache and episodic migraine: a multimodal 7T MRI study. *The journal of headache and pain*, 27(1).

Jin L, et al. (2026) The onco-functional reorganization of language network underlying metaplasticity induced by gliomas. *Frontiers in oncology*, 16, 1850713.

He Y, et al. (2026) Alterations in subgenual anterior cingulate cortex functional connectivity underlie depressive symptoms in chronic insomnia disorder. *Frontiers in psychiatry*, 17, 1765885.

Fan J, et al. (2026) The Effect of Music Stimulation on Resting-State Brain Functional Networks Following Exhaustive Endurance Exercise: An EEG Study. *Brain sciences*, 16(3).

Ning X, et al. (2026) Role of disturbed structural connectivity network in patients with white matter lesions and cognitive impairment revealed by diffusion-tensor magnetic resonance imaging. *The Journal of international medical research*, 54(5), 3000605261431456.

Wu J, et al. (2026) Classifying irritable bowel syndrome using spatio-temporal graph convolution networks on brain functional MRI data. *Brain communications*, 8(2), fcag062.

Huang J, et al. (2026) Disrupted rich club organization in structural brain networks is related to childhood maltreatment in major depressive disorder. *Frontiers in psychiatry*, 17, 1759133.

Chu M, et al. (2026) Disrupted brain topological network and its association with clinical features in posterior cortical atrophy. *Brain communications*, 8(2), fcag014.

B??tz LR, et al. (2026) Increased functional integration of emotional control network across the adult lifespan. *Aging brain*, 9, 100156.

Zhuang J, et al. (2026) Alterations of White Matter Structural Brain Network in Children With Sensorineural Hearing Loss: A Graph Theory Analysis for Auditory Sensitivity Period. *Neural plasticity*, 2026(1), e4263849.

Zhu H, et al. (2026) Brain functional network correlates and predictors of the perioperative antidepressant effect of esketamine in breast cancer patients: a double-blind randomized controlled trial using resting-state fMRI and graph theory. *Translational psychiatry*, 16(1).