

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: software resource, software application, data processing software

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: 20260731T042812+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 390 mentions in open access literature.

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

Liu X, et al. (2025) Functional connectivity gradients and neurotransmitter maps among patients with mild cognitive impairment and depression symptoms. *Journal of psychiatry & neuroscience : JPN*, 50(1), E11.

Zhang Y, et al. (2025) Improved brain functional network in major depressive disorder with suicidal ideation after individual target-transcranial magnetic stimulation treatment: a graph-theory analysis. *Frontiers in psychiatry*, 16, 1486835.

Gao F, et al. (2025) Case report: Monitoring consciousness with fNIRS in a patient with prolonged reduced consciousness following hemorrhagic stroke undergoing adjunct taVNS therapy. *Frontiers in neuroscience*, 19, 1519939.

Yang Y, et al. (2025) Abnormal brain functional networks in systemic lupus erythematosus: a graph theory, network-based statistic and machine learning study. *Brain communications*, 7(2), fcaf130.

Jiang X, et al. (2025) Alterations in local activity and whole-brain functional connectivity in human immunodeficiency virus-associated neurocognitive disorders: a resting-state functional magnetic resonance imaging study. *Quantitative imaging in medicine and surgery*, 15(1), 563.

Ma J, et al. (2025) Examining Brain Function Changes in HIV-Infected Patients With Asymptomatic Neurocognitive Impairment: A Longitudinal Study. *Brain and behavior*, 15(6), e70559.

Li Q, et al. (2025) Aberrant brain network connectivity related to cognitive and emotional regulation in women with abdominal obesity. *Scientific reports*, 15(1), 24795.

Wang M, et al. (2025) Alleviating cognitive impairments in bipolar disorder with a novel DTI-guided multimodal neurostimulation protocol: a double-blind randomized controlled trial. *BMC medicine*, 23(1), 334.

Kim H, et al. (2025) Effect of medication on the rostralateral prefrontal oxygenation and thalamic volume asymmetry in youths with ADHD. *Frontiers in integrative neuroscience*, 19, 1591465.

Chen Q, et al. (2025) Distributions and network changes of brain activity in the acute phase of anti-NMDAR encephalitis: a MEG study. *Journal of neurology*, 272(8), 551.

Luo S, et al. (2025) Identification of circadian-sensitive brain structure and its role in cognitive impairment and dementia. *BMJ mental health*, 28(1).

Zeng L, et al. (2025) The emergent property of inhibitory control: implications of intermittent network-based fNIRS neurofeedback training. *Frontiers in human neuroscience*, 19, 1513304.

Zhang H, et al. (2025) Multiparameter resting-state functional magnetic resonance imaging as an indicator of neuropsychological changes in Binswanger's disease with mild cognitive impairment. *Frontiers in aging neuroscience*, 17, 1522591.

Yang X, et al. (2025) A specific model of resting-state functional brain network in MRI-negative temporal lobe epilepsy. *Heliyon*, 11(4), e42695.

Zhu J, et al. (2025) Neural architecture of social punishment: Insights from a queue-jumping scenario. *iScience*, 28(3), 111988.

Nie H, et al. (2025) Reduced white matter integrity and disrupted brain network in children with type 2 and 3 spinal muscular atrophy. *Journal of neurodevelopmental disorders*, 17(1), 3.

He J, et al. (2025) How impulsivity and sensation seeking drive IGD tendency in healthy young adults: A resting-state MRI study. *Journal of behavioral addictions*, 14(3), 1343.

Xiayan C, et al. (2025) Unraveling Hierarchical Brain Dysfunction in Major Depressive Disorder: A Multimodal Imaging and Transcriptomic Approach. *Human brain mapping*, 46(10), e70277.

Lee AS, et al. (2025) Cerebellar output neurons can impair non-motor behaviors by altering development of extracerebellar connectivity. *Nature communications*, 16(1), 1858.

Guo Y, et al. (2025) Electroacupuncture combined with cognitive rehabilitation outperforms cognitive rehabilitation alone in treating post-stroke cognitive impairment: a randomized controlled trial. *Frontiers in neurology*, 16, 1507475.