# Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 24, 2025

## GRETNA

RRID:SCR_009487
Type: Tool

### Proper Citation

GRETNA (RRID:SCR_009487)

### Resource Information

**URL:** http://www.nitrc.org/projects/gretna/

**Proper Citation:** GRETNA (RRID:SCR_009487)

**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

**Funding:**

**Availability:** GNU General Public License

**Resource Name:** GRETNA

**Resource ID:** SCR_009487

**Alternate IDs:** nlx_155634

**Record Creation Time:** 20220129T080253+0000

**Record Last Update:** 20250423T060519+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

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 349 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.


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.

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.

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.

Ruan J, et al. (2025) Connectional differences between humans and macaques in the MT+ complex. iScience, 28(1), 111617.

Li J, et al. (2024) Disrupted topological organization of functional brain networks in traumatic axonal injury. Brain imaging and behavior, 18(2), 279.

Zhang X, et al. (2024) Topological differences of striato-thalamo-cortical circuit in functional brain network between premature ejaculation patients with and without depression. Brain and behavior, 14(6), e3585.

Li L, et al. (2024) Abnormal dynamic functional connectivity and topological properties of cerebellar network in male obstructive sleep apnea. CNS neuroscience & therapeutics, 30(6), e14786.

Wang Y, et al. (2024) Altered static and dynamic functional network connectivity in primary angle-closure glaucoma patients. Scientific reports, 14(1), 11682.

Zhou R, et al. (2024) Altered intra- and inter-network connectivity in autism spectrum disorder. Aging, 16(11), 10004.

Wei B, et al. (2024) Analyzing the topological properties of resting-state brain function network connectivity based on graph theoretical methods in patients with high myopia. BMC ophthalmology, 24(1), 315.

Ma H, et al. (2024) In patients with mild disability NMOSD: is the alteration in the cortical morphological or functional network topological properties more significant. Frontiers in immunology, 15, 1345843.

Ma J, et al. (2024) The moderating role of information processing speed in the relationship between brain remodeling and episodic memory in amnestic mild cognitive impairment. Alzheimer's & dementia : the journal of the Alzheimer's Association, 20(10), 6793.

Zhang X, et al. (2024) Aberrant brain structural-functional connectivity coupling associated with cognitive dysfunction in different cerebral small vessel disease burdens. CNS neuroscience & therapeutics, 30(9), e70005.

Chen Y, et al. (2024) State- and trait-related dysfunctions in bipolar disorder across different mood states: a graph theory study. Journal of psychiatry & neuroscience : JPN, 49(1), E11.

Chen Z, et al. (2024) Increased functional connectivity between default mode network and visual network potentially correlates with duration of residual dizziness in patients with benign paroxysmal positional vertigo. Frontiers in neurology, 15, 1363869.

Tang C, et al. (2024) Distinct serum GDNF coupling with brain structural and functional changes underlies cognitive status in Parkinson's disease. CNS neuroscience & therapeutics, 30(3), e14461.

Pang X, et al. (2024) The role of the thalamus in modular functional networks in temporal lobe epilepsy with cognitive impairment. CNS neuroscience & therapeutics, 30(2), e14345.

Jiang TF, et al. (2024) Acupuncture modulates emotional network resting-state functional connectivity in patients with insomnia disorder: a randomized controlled trial and fMRI study. BMC complementary medicine and therapies, 24(1), 311.

Guo R, et al. (2024) Graph Theory Further Revealed Visual Spatial Working Memory Impairment in Patients with Inflammatory Bowel Disease. Journal of inflammation research, 17, 2811.

Shao X, et al. (2024) Intra-individual structural covariance network in schizophrenia patients with persistent auditory hallucinations. Schizophrenia (Heidelberg, Germany), 10(1), 92.