Resource Summary Report

Generated by dkNET on May 8, 2025

brainGraph

RRID:SCR_017260

Type: Tool

Proper Citation

brainGraph (RRID:SCR_017260)

Resource Information

URL: https://github.com/cwatson/braingraph/

Proper Citation: brainGraph (RRID:SCR_017260)

Description: Software R package for performing graph theory analyses of brain MRI data.

Synonyms: brainGraph - Graph Theory Analysis of Brain MRI Data in R, brainGraph

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

software resource

Keywords: graph, theory, analysis, brain, MRI, data

Funding:

Availability: Free, Available for download, Freely available

Resource Name: brainGraph

Resource ID: SCR_017260

Alternate URLs: https://www.nitrc.org/projects/braingraph/, https://rdrr.io/cran/brainGraph/,

https://www.r-pkg.org/pkg/brainGraph

License: GPL

Record Creation Time: 20220129T080334+0000

Record Last Update: 20250508T065748+0000

Ratings and Alerts

No rating or validation information has been found for brainGraph.

No alerts have been found for brainGraph.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Joo SW, et al. (2024) Topological abnormalities of the morphometric similarity network of the cerebral cortex in schizophrenia. Schizophrenia (Heidelberg, Germany), 10(1), 57.

Ruiz T, et al. (2024) Graph Analysis of the Visual Cortical Network during Naturalistic Movie Viewing Reveals Increased Integration and Decreased Segregation Following Mild TBI. Vision (Basel, Switzerland), 8(2).

Tang H, et al. (2023) A comprehensive survey of complex brain network representation. Meta-radiology, 1(3).

Li W, et al. (2022) Difference in topological organization of white matter structural connectome between methamphetamine and heroin use disorder. Behavioural brain research, 422, 113752.

Mürner-Lavanchy I, et al. (2022) Altered resting-state networks in adolescent non-suicidal self-injury-a graph theory analysis. Social cognitive and affective neuroscience, 17(9), 819.

Kim DJ, et al. (2020) Rich-club in the brain's macrostructure: Insights from graph theoretical analysis. Computational and structural biotechnology journal, 18, 1761.

Lin F, et al. (2020) Brain hothubs and dark functional networks: correlation analysis between amplitude and connectivity for Broca's aphasia. PeerJ, 8, e10057.

Feldmann M, et al. (2020) Delayed maturation of the structural brain connectome in neonates with congenital heart disease. Brain communications, 2(2), fcaa209.

Kunst M, et al. (2019) A Cellular-Resolution Atlas of the Larval Zebrafish Brain. Neuron, 103(1), 21.

Mangangcha IR, et al. (2019) Identification of key regulators in prostate cancer from gene expression datasets of patients. Scientific reports, 9(1), 16420.