Resource Summary Report

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CONN

RRID:SCR_009550
Type: Tool

Proper Citation

CONN (RRID:SCR_009550)

Resource Information

URL: https://www.conn-toolbox.org

Proper Citation: CONN (RRID:SCR_009550)

Description: Matlab based cross platform software package for computation, display, and analysis of functional connectivity in fMRI (fcMRI). Used for resting state data (rsfMRI) as well as task related designs. Covers pipeline from raw fMRI data to hypothesis testing.

Abbreviations: CONN

Synonyms: CONN toolbox, CONN - functional connectivity toolbox, Connectivity Toolbox (CONN)

Resource Type: software application, software toolkit, data processing software, image analysis software, software resource

Defining Citation: PMID:22642651, PMID:21889994

Keywords: fmri functional connectivity, resting state data, seed-based correlations, ROI-to-ROI graph analyses, group ICA, masked ICA, generalized PPI, ALFF, ICC, GCOR, LCOR,

Funding:

Availability: Free, Available for download, Freely available

Resource Name: CONN

Resource ID: SCR_009550

Alternate IDs: nlx_155730

Alternate URLs: www.nitrc.org/projects/conn

License: MIT License, X Consortium License

Record Creation Time: 20220129T080253+0000

Record Last Update: 20250517T055928+0000

Ratings and Alerts

No rating or validation information has been found for CONN.

No alerts have been found for CONN.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 860 mentions in open access literature.

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

Hempel M, et al. (2025) Aberrant associations between neuronal resting-state fluctuations and working memory-induced activity in major depressive disorder. Molecular psychiatry, 30(1), 4.

Vogt KM, et al. (2025) Neural correlates of systemic lidocaine administration in healthy adults measured by functional MRI: a single arm open label study. British journal of anaesthesia, 134(2), 414.

Widegren E, et al. (2025) Fear extinction retention in children, adolescents, and adults. Developmental cognitive neuroscience, 71, 101509.

Wallace RS, et al. (2025) Mapping patterns of thought onto brain activity during movie-watching. eLife, 13.

Wang J, et al. (2025) The efficacy and safety of dual-target rTMS over dorsolateral prefrontal cortex (DLPFC) and cerebellum in the treatment of negative symptoms in first-episode schizophrenia: Protocol for a multicenter, randomized, double-blind, sham-controlled study. Schizophrenia research. Cognition, 39, 100339.

Gonzalez Alam TRJ, et al. (2025) A double dissociation between semantic and spatial

cognition in visual to default network pathways. eLife, 13.

Tranfa M, et al. (2025) Altered Intracerebellar Functional Connectivity in Friedreich's Ataxia: A Graph-Theory Functional MRI Study. Cerebellum (London, England), 24(2), 30.

Della Rosa PA, et al. (2025) The Neurodevelopmental Dynamics of Multilingual Experience During Childhood: A Longitudinal Behavioral, Structural, and Functional MRI Study. Brain sciences, 15(1).

Wang J, et al. (2025) Aberrant functional connectivity between the retrosplenial cortex and hippocampal subregions in amnestic mild cognitive impairment and Alzheimer's disease. Brain communications, 7(1), fcae476.

Khodadadi Arpanahi S, et al. (2025) Mapping Alzheimer's disease stages toward it's progression: A comprehensive cross-sectional and longitudinal study using resting-state fMRI and graph theory. Ageing research reviews, 103, 102590.

Hynd M, et al. (2025) Estradiol modulates resting-state connectivity in perimenopausal depression. Journal of affective disorders, 371, 253.

Kemik K, et al. (2024) Detecting language network alterations in mild cognitive impairment using task-based fMRI and resting-state fMRI: A comparative study. Brain and behavior, 14(5), e3518.

Chen Z, et al. (2024) Altered thalamus functional connectivity in patients with acute unilateral vestibulopathy: a resting-state fMRI study. Frontiers in neuroscience, 18, 1388213.

Rominger C, et al. (2024) MRI resting-state signature of the propensity to experience meaningful coincidences: a functional coupling analysis. Cerebral cortex (New York, N.Y. : 1991), 34(7).

Leehr EJ, et al. (2024) Association between resting-state connectivity patterns in the defensive system network and treatment response in spider phobia-a replication approach. Translational psychiatry, 14(1), 137.

Luppi AI, et al. (2024) Quantifying synergy and redundancy between networks. Cell reports. Physical science, 5(4), 101892.

Satake T, et al. (2024) Comparison of local activation, functional connectivity, and structural connectivity in the N-back task. Frontiers in neuroscience, 18, 1337976.

Satake T, et al. (2024) Increased functional connectivity following ingestion of dried bonito soup. Frontiers in nutrition, 11, 1354245.

He Q, et al. (2024) Association between the frontoparietal network, clinical symptoms and treatment response in individuals with untreated anorexia nervosa. General psychiatry, 37(3), e101389.

Wang J, et al. (2024) Effects of acupuncture at the Taichong (LIV3) and Hegu (LI4) points on functional connectivity with the retrosplenial cortex in patients with Alzheimer's disease.

Frontiers in neuroscience, 18, 1511183.