## **Resource Summary Report**

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# 

RRID:SCR\_009550 Type: Tool

**Proper Citation** 

CONN (RRID:SCR\_009550)

## **Resource Information**

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

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**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 resource, image analysis software, data processing software, software toolkit, software application

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: 20250422T055526+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 <u>NIF</u>.

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 moviewatching. 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.

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.

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).

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.

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

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.

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.

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.

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).

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

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

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.

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.