

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>

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

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,

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: 20260905T132634+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 1127 mentions in open access literature.

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

Albert K, et al. (2026) Associations between subjective cognitive concern, brain network connectivity, and cognitive performance in cognitively normal older adults. Aging brain, 9, 100155.

Baecke S, et al. (2026) The Impact of Visual Feedback Design on Self-Regulation Performance and Learning in a Single-Session rt-fMRI Neurofeedback Study at 3T and 7T. Brain sciences, 16(2).

Benelli A, et al. (2026) Neurophysiological, imaging and neurobiological markers of central fatigue in multiple sclerosis. Brain communications, 8(3), fcag134.

Massera A, et al. (2026) Prenatal neural network organization and later executive function development. Developmental cognitive neuroscience, 80, 101745.

Kim WS, et al. (2026) Altered auditory seed-based functional connectivity in other specified schizophrenia spectrum and other psychotic disorder compared to schizophrenia spectrum disorders. Schizophrenia (Heidelberg, Germany), 12(1).

Walker CS, et al. (2026) The neural basis of prosocial effort-based decision making in older adults at risk for Alzheimer's disease. medRxiv : the preprint server for health sciences.

Voženílek D, et al. (2026) Altered functional connectivity related to prepulse inhibition in functional movement disorder. NeuroImage. Clinical, 49, 103966.

Burhunduli P, et al. (2026) Differentiating suicide risk in treatment-resistant depression: clinical and functional imaging correlates of suicidal ideation and attempt. NeuroImage. Clinical, 50, 103961.

- Zheng H, et al. (2026) Aberrant functional connectivity and Granger causality analysis in patients with β -thalassemia major. *Annals of hematology*, 105(4).
- Korte JA, et al. (2026) Age-Related Low Frequency Amplitude Differences in Resting-State Blood Oxygenation Level-Dependent Signal in the Cerebellum. *Human brain mapping*, 47(7), e70541.
- Deng Y, et al. (2026) Motor- and cognitive-dominant functional network adaptations supporting dual-task performance in older adults. *Imaging neuroscience (Cambridge, Mass.)*, 4.
- Yulug B, et al. (2026) Transcranial alternating current stimulation improves cognitive functions in healthy subjects through modifying frontoparietal and dorsal attention networks based on personalized individual theta frequency analysis. *Frontiers in behavioral neuroscience*, 20, 1821101.
- de Oliveira GR, et al. (2026) Disrupted Sensorimotor Network Integration in Women With Fibromyalgia Revealed by Resting-State Functional MRI. *Journal of neuroimaging : official journal of the American Society of Neuroimaging*, 36(1), e70118.
- Luppi AI, et al. (2026) Convergent transcriptomic and connectomic controllers of information integration and its anaesthetic breakdown across mammalian brains. *Nature human behaviour*, 10(4), 777.
- Zhu Q, et al. (2026) Acute inflammation and fronto-striatal connectivity in the transition from acute to persistent fatigue after mild COVID-19: A longitudinal fMRI study. *Brain, behavior, & immunity - health*, 53, 101196.
- Tarchi L, et al. (2026) Disrupted Emergent Properties of the Brain in Schizophrenia: Insight From Integrated Information Decomposition of Resting State fMRI. *Brain and behavior*, 16(4), e71352.
- Alam TG, et al. (2026) Bridging Continuous and Discrete Models of the Anterior Temporal Lobe via Cortical Gradients. *Research square*.
- Sevenoaks T, et al. (2026) The Effect of Caffeine Consumption and Acute Withdrawal on Resting-State fMRI Brain Connectivity, Mood and Cognition. *The European journal of neuroscience*, 63(8), e70511.
- Brannigan K, et al. (2026) Hippocampal connectivity predicting recognition and categorization abilities. *Frontiers in cognition*, 5, 1765217.
- Luo X, et al. (2026) rTMS Suppresses Tobacco Craving via Enhanced Prefronto-Striato-Thalamic Connectivity. *Addiction biology*, 31(5), e70167.