

Resource Summary Report

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Functional Connectivity Toolbox

RRID:SCR_006394

Type: Tool

Proper Citation

Functional Connectivity Toolbox (RRID:SCR_006394)

Resource Information

URL: <https://sites.google.com/site/functionalconnectivitytoolbox/>

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Description: MATLAB toolbox for performing functional connectivity analyses includes many of the most commonly-used approaches researchers have utilized to date for the identification of condition-dependent functional interactions between fMRI time-series obtained from two or more brain regions. The approaches are either bivariate or multivariate methods defined in time or frequency domains that emphasize distinct features of relationships among the time-series.

Abbreviations: Functional Connectivity Toolbox

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

Defining Citation: [PMID:19520177](#)

Keywords: functional connectivity, fmri, matlab, brain region, brain, function, connectivity, neuroimaging, time-series

Funding: NIMH K25 MH076981-01;
NSF DMS-0904825;
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Availability: Free

Resource Name: Functional Connectivity Toolbox

Resource ID: SCR_006394

Alternate IDs: nlx_152228

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260808T185837+0000

Ratings and Alerts

No rating or validation information has been found for Functional Connectivity Toolbox.

No alerts have been found for Functional Connectivity Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 253 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Daneshnia N, et al. (2026) The paternal brain: longitudinal insights into structural and functional plasticity and attachment over 24 weeks postpartum. Translational psychiatry, 16(1).

Van de Winckel A, et al. (2026) Preliminary efficacy of cognitive multisensory rehabilitation for neuropathic pain in chronic spinal cord injury: a phase I randomized controlled trial. Scientific reports, 16(1).

Maboudian SA, et al. (2026) Tau Pathology in Alzheimer's Disease Uniquely Affects Sulcal Depths. Annals of neurology, 99(5), 1343.

Mohammadi E, et al. (2026) Supportive neural mechanisms underlying successful emotion regulation for reappraisal success. Scientific reports, 16(1).

Oishi M, et al. (2026) Differences in brain functional connectivity between autonomous sensory meridian response and classical music. Frontiers in neuroscience, 20, 1815703.

Das S, et al. (2026) Effect of Precision-based HD-tDCS Over Conventional HD-tDCS in Young-onset Mania: Protocol for an Active Comparison fMRI and TMS Study. Indian journal of psychological medicine, 48(3), 316.

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.

Mellick WH, et al. (2026) Aberrant cortico-striato-limbic functional connectivity to alcohol cues in co-occurring bipolar disorder and alcohol use disorder. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 51(8), 1378.

Liu X, et al. (2026) Effects of Neural Correlates of Food-Specific Intentional Inhibition in Predicting Body Fat Loss for Overweight and Normal-Weight Young Adults: The Mediation of Restrained Eating. *Nutrients*, 18(11).

Hari E, et al. (2026) Functional connectivity patterns of the cerebellar components of intrinsic connectivity networks in clinically diagnosed probable Alzheimer's disease. *BMC medical imaging*, 26(1).

Dembny K, et al. (2026) Metric validation for detection of delayed and directed coupling. *Journal of neural engineering*, 23(3).

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

Jung M, et al. (2026) Resting-State Functional Connectivity Changes Associated With Post-Traumatic Stress and Anxiety Symptoms in North Korean Refugees. *Psychiatry investigation*, 23(2), 258.

Park IH, et al. (2025) Cognitive effort devaluation and the salience network: a computational model of amotivation in depression. *Frontiers in psychiatry*, 16, 1581802.

Nair KS, et al. (2025) Improvement in Insulin Sensitivity Prevents Decline in Glucose Uptake, Functional Connectivity, and Volume in the Insulin Resistant Human Brain. *Research square*.

Wang H, et al. (2025) Brain changes in stroke patients during rehabilitation: a longitudinal study. *Frontiers in neuroscience*, 19, 1636135.

Shibata M, et al. (2025) Alterations of the default mode network, salience network, and frontoparietal network in non-problematic Internet use and their association with mood regulation: from an internet literacy perspective. *Frontiers in neuroscience*, 19, 1599987.

Tuna T, et al. (2025) Associative coding of conditioned fear in the thalamic nucleus reuniens in rodents and humans. *Communications biology*, 8(1), 1142.

Rosenberg BM, et al. (2025) Previous institutionalization is associated with elevated functional connectivity between the nucleus accumbens and amygdala during aversive learning. *Developmental cognitive neuroscience*, 76, 101617.

Zhang K, et al. (2025) Brain plasticity associated with prolonged shooting training: a multimodal neuroimaging investigation from a cross-sectional study. *Frontiers in human neuroscience*, 19, 1530642.