Resource Summary Report

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Group ICA of fMRI Toolbox

RRID:SCR_001953
Type: Tool

Proper Citation

Group ICA of fMRI Toolbox (RRID:SCR_001953)

Resource Information

URL: https://github.com/trendscenter/gift

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Description: Software MATLAB toolbox which implements multiple algorithms for independent component analysis and blind source separation of group (and single subject) functional magnetic resonance imaging data. GIFT works on MATLAB 6.5 and higher. Many ICA algorithms were generously contributed by Dr. Andrzej Cichocki.

Abbreviations: GIFT

Synonyms: Group ICA Of fMRI Toolbox (GIFT)

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

Defining Citation: PMID:18165105

Keywords: independent component analysis, matlab, magnetic resonance, fmri, algorithm

Funding: NIBIB 1R01EB000840

Availability: Free, Available for download, Freely available

Resource Name: Group ICA of fMRI Toolbox

Resource ID: SCR_001953

Alternate IDs: SCR_024416, nif-0000-00309

Alternate URLs: http://www.nitrc.org/projects/gift

Old URLs: http://mialab.mrn.org/software/gift/

License: GNU General Public License

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Ratings and Alerts

No rating or validation information has been found for Group ICA of fMRI Toolbox.

No alerts have been found for Group ICA of fMRI Toolbox.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1411 mentions in open access literature.

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

Jensen D, et al. (2026) Adolescent White Matter Maturation Mediates Epigenetic Associations With Cognitive Development. Developmental neurobiology, 86(1), e70000.

Scarlatti F, et al. (2025) Chronic pain is linked to a resting-state neural archetype that optimizes learning from punishments. bioRxiv : the preprint server for biology.

Witt AA, et al. (2025) Changes in functional connectivity in relapsing-remitting multiple sclerosis spinal cord measured via region-based and data-driven analyses. Imaging neuroscience (Cambridge, Mass.), 3.

Doucet GE, et al. (2025) Dev-Atlas: A reference atlas of functional brain networks for typically developing adolescents. Developmental cognitive neuroscience, 72, 101523.

Phadikar S, et al. (2025) Integrating fMRI spatial network dynamics and EEG spectral power: insights into resting state connectivity. Frontiers in neuroscience, 19, 1484954.

Lee Masson H, et al. (2025) Dynamic functional adaptations during touch observation in autism: connectivity strength is linked to attitudes towards social touch and social responsiveness. Molecular autism, 16(1), 11.

Wu X, et al. (2025) Dynamic functional connectivity and coupling analysis of triple networks and white matter functional networks in first-episode schizophrenia patients: mechanisms revealed by follow-up studies. BMC psychiatry, 25(1), 1021.

Xiao Z, et al. (2025) Abnormal functional network connectivity mediates the relationship between depressive symptoms and cognitive decline in late-onset depression. Psychological medicine, 55, e227.

Usc?tescu LC, et al. (2025) Using the excitation/inhibition ratio to optimize the classification of autism and schizophrenia. Translational psychiatry, 15(1), 234.

Xie H, et al. (2025) Theta-frequency subthalamic stimulation enhances conflict resolution in Parkinson's disease patients with freezing of gait through frontal cortex modulation. NPJ Parkinson's disease, 11(1), 206.

Tomas CW, et al. (2025) Data-Driven Approach to Dynamic Resting State Functional Connectivity in Post-Traumatic Stress Disorder: An ENIGMA-PGC PTSD Study. Human brain mapping, 46(11), e70116.

Li G, et al. (2025) Clinical and Functional Connectivity Markers in Prediction of Hallucinations in Parkinson's Disease. CNS neuroscience & therapeutics, 31(6), e70432.

Duan K, et al. (2025) aNy-way ICA and its application to estimate cortico-thalamo-cerebellar functional links in schizophrenia. bioRxiv : the preprint server for biology.

Saha R, et al. (2025) Analysis of Longitudinal Change Patterns in Developing Brain Using Functional and Structural Magnetic Resonance Imaging via Multimodal Fusion. Human brain mapping, 46(10), e70241.

Wu J, et al. (2025) Non-linear associations of amyloid-? with resting-state functional networks and their cognitive relevance in a large community-based cohort of cognitively normal older adults. ArXiv.

Fu Z, et al. (2025) Cognitive and psychiatric relevance of dynamic functional connectivity states in a large (N > 10,000) children population. Molecular psychiatry, 30(2), 402.

Shan ZY, et al. (2025) Oral ketamine effects on dynamics of functional network connectivity in patients treated for chronic suicidality. European archives of psychiatry and clinical neuroscience, 275(5), 1347.

Zhao Z, et al. (2025) State-dependent inter-network functional connectivity development in neonatal brain from the developing human connectome project. Developmental cognitive neuroscience, 71, 101496.

Abagnale C, et al. (2025) MRI-based analysis of the microstructure of the thalamus and hypothalamus and functional connectivity between cortical networks in episodic cluster headache. The journal of headache and pain, 26(1), 12.

Premi E, et al. (2025) Impaired spatial dynamic functional network connectivity and neurophysiological correlates in functional hemiparesis. NeuroImage. Clinical, 45, 103731.