

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 resource, software toolkit

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 1468 mentions in open access literature.

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

Harikumar A, et al. (2026) Classifying schizophrenia patients and healthy individuals: Whole brain SPECT functional connectivity using support vector machine classification. Neuroimage. Reports, 6(3), 100373.

Wu J, et al. (2026) 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. Alzheimer's research & therapy, 18(1).

Mo Y, et al. (2026) A new paradigm for stratified cognitive assessment: fusing serum Raman spectroscopy and ensemble learning. Alzheimer's research & therapy, 18(1).

Du T, et al. (2026) Resting-state fMRI reveals immediate hemodialysis-related changes in cognitive function and brain network connectivity in end-stage renal disease. Scientific reports, 16(1).

Baig TI, et al. (2026) Multi-Site Classification of Autism Spectrum Disorder Using Spatially Constrained ICA on Resting-State fMRI Networks. Brain sciences, 16(2).

Li X, et al. (2026) Brain functional network connectivity interpolation characterizes the neuropsychiatric continuum and heterogeneity. bioRxiv : the preprint server for biology.

Soleimani N, et al. (2026) A novel framework to quantify dynamic convergence and divergence of overlapping brain states characterizing four psychiatric disorders. Network neuroscience (Cambridge, Mass.), 10(1), 93.

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

Wardell J, et al. (2026) Combining fast and slow fMRI sampling rates can enhance predictive power in resting-state data. *NeuroImage*, 325, 121579.

Xu G, et al. (2026) Altered Dynamic Functional Network Connectivity in Post-Stroke Aphasia. *Annals of clinical and translational neurology*, 13(1), 97.

Serra L, et al. (2026) Bridging cognitive reserve and cerebellar networks: counteracting brain damage in patients with Alzheimer's disease at different clinical stages. *Frontiers in cellular neuroscience*, 20, 1716783.

Liu Q, et al. (2026) Cell-type-aware transcriptome-wide association studies identify 91 independent risk genes for Alzheimer's disease dementia. *Communications biology*, 9(1).

Pan WJ, et al. (2026) An integrated platform for simultaneous wide-field voltage/calcium imaging and fMRI (EPI & ZTE) reveals neuronal infraslow dynamics underlying functional connectivity. *bioRxiv : the preprint server for biology*.

Theofanopoulou C, et al. (2026) Functional Reorganization of Motor Subcircuits in Parkinson's disease. *bioRxiv : the preprint server for biology*.

Chang X, et al. (2026) Neurocognitive characterization of behaviour and mental illness through time-varying brain network analysis. *Nature communications*, 17(1), 1353.

Straathof M, et al. (2026) The effects of a second pregnancy on women's brain structure and function. *Nature communications*, 17(1), 1495.

Bao W, et al. (2026) Insomnia severity impact dynamic connectivity and modulate connectivity-cognitive links in major depressive disorder. *Psychological medicine*, 56, e137.

Zeng Y, et al. (2026) Whole-Brain Static Functional Connectivity Disruptions Based on the Default Mode Network in Patients with Mild Cognitive Impairment. *Brain topography*, 39(3).

Zhang W, et al. (2026) Fat phenomics reveals shared genetic architecture of abdominal fat and yolk lipids: Insight into the potential for divergent selection. *Poultry science*, 105(9), 107192.

Huang H, et al. (2026) Default Mode Network, Disorganization, and Treatment-Resistant Schizophrenia. *Schizophrenia bulletin*, 52(1).