

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

## Group ICA of fMRI Toolbox

RRID:SCR\_001953

Type: Tool

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### Proper Citation

Group ICA of fMRI Toolbox (RRID:SCR\_001953)

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### Resource Information

**URL:** <https://github.com/trendscenter/gift>

**Proper Citation:** Group ICA of fMRI Toolbox (RRID:SCR\_001953)

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

**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

**Record Creation Time:** 20220129T080210+0000

**Record Last Update:** 20260808T185736+0000

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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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 1468 mentions in open access literature.

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

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).