

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: <http://mialab.mrn.org/software/gift/>

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Description: A 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, software toolkit, image analysis software, software resource, software application

Defining Citation: [PMID:18165105](#)

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

Funding: NIBIB 1R01EB000840

Availability: GNU General Public License

Resource Name: Group ICA of fMRI Toolbox

Resource ID: SCR_001953

Alternate IDs: nif-0000-00309

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

Old URLs: <http://icatb.sourceforge.net>

Record Creation Time: 20220129T080210+0000

Record Last Update: 20250412T054641+0000

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 1165 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Pilmeyer J, et al. (2024) Improved clinical outcome prediction in depression using neurodynamics in an emotional face-matching functional MRI task. *Frontiers in psychiatry*, 15, 1255370.

Yuan X, et al. (2024) Microstructural alterations in white matter and related neurobiology based on the new clinical subtypes of Parkinson's disease. *Frontiers in neuroscience*, 18, 1439443.

Wang Y, et al. (2024) Effects of escitalopram therapy on effective connectivity among core brain networks in major depressive disorder. *Journal of affective disorders*, 350, 39.

Pilmeyer J, et al. (2024) Multi-modal MRI for objective diagnosis and outcome prediction in depression. *NeuroImage. Clinical*, 44, 103682.

Huang T, et al. (2023) Drooling disrupts the brain functional connectivity network in Parkinson's disease. *CNS neuroscience & therapeutics*.

Liu X, et al. (2023) Aberrant dynamic Functional-Structural connectivity coupling of Large-scale brain networks in poststroke motor dysfunction. *NeuroImage. Clinical*, 37, 103332.

Ellis CA, et al. (2023) Towards greater neuroimaging classification transparency via the integration of explainability methods and confidence estimation approaches. *Informatics in*

medicine unlocked, 37.

Ellis CA, et al. (2023) A Novel Explainable Fuzzy Clustering Approach for fMRI Dynamic Functional Network Connectivity Analysis. *bioRxiv : the preprint server for biology*.

Si Q, et al. (2023) Altered dynamic functional network connectivity in levodopa-induced dyskinesia of Parkinson's disease. *CNS neuroscience & therapeutics*, 29(1), 192.

Ziminski JJ, et al. (2023) Microstructural and neurochemical plasticity mechanisms interact to enhance human perceptual decision-making. *PLoS biology*, 21(3), e3002029.

Hidalgo-Lopez E, et al. (2023) Triple network model of brain connectivity changes related to adverse mood effects in an oral contraceptive placebo-controlled trial. *Translational psychiatry*, 13(1), 209.

Duda M, et al. (2023) Alterations in grey matter structure linked to frequency-specific cortico-subcortical connectivity in schizophrenia via multimodal data fusion. *bioRxiv : the preprint server for biology*.

Lisonkova S, et al. (2023) Early coronavirus disease 2019 restrictive measures and changes in maternal characteristics, use of assisted reproductive technology, and stillbirth. *Paediatric and perinatal epidemiology*, 37(2), 117.

Hägerbäumer P, et al. (2023) Interactions between DMPC Model Membranes, the Drug Naproxen, and the Saponin α -Aescin. *Pharmaceutics*, 15(2).

Li M, et al. (2023) Ameliorative patterns of grey matter in patients with first-episode and treatment-naïve schizophrenia. *Psychological medicine*, 53(8), 3500.

Jung J, et al. (2023) Distinct but cooperating brain networks supporting semantic cognition. *Cerebral cortex (New York, N.Y. : 1991)*, 33(5), 2021.

Ghomroudi PA, et al. (2023) Decoding reappraisal and suppression from neural circuits: A combined supervised and unsupervised machine learning approach. *Cognitive, affective & behavioral neuroscience*, 23(4), 1095.

Qi Y, et al. (2023) Dissipation, Processing Factors and Dietary Exposure Assessment of Myclobutanil in Tomato. *Molecules (Basel, Switzerland)*, 28(16).

Jackson RL, et al. (2023) A network-level test of the role of the co-activated default mode network in episodic recall and social cognition. *Cortex; a journal devoted to the study of the nervous system and behavior*, 165, 141.

Wan X, et al. (2023) Abnormal brain functional network dynamics in sleep-related hypermotor epilepsy. *CNS neuroscience & therapeutics*, 29(2), 659.