

Resource Summary Report

Generated by T1D on Aug 5, 2026

Analysis of Functional NeuroImages

RRID:SCR_005927

Type: Tool

Proper Citation

Analysis of Functional NeuroImages (RRID:SCR_005927)

Resource Information

URL: <http://afni.nimh.nih.gov/afni/>

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Description: Set of (mostly) C programs that run on X11+Unix-based platforms (Linux, Mac OS X, Solaris, etc.) for processing, analyzing, and displaying functional MRI (fMRI) data defined over 3D volumes and over 2D cortical surface meshes. AFNI is freely distributed as source code plus some precompiled binaries.

Abbreviations: AFNI

Synonyms: AFNI NIfTI Server, AFNI and NIfTI Server

Resource Type: data processing software, source code, data analysis software, software resource, software application, data visualization software, software toolkit

Keywords: c program, unix, fmri, solaris, nifti-1 support, 2d surface analysis, 3d surface analysis, visualization

Funding: NIMH

Availability: Free, Open Source, Runs on Linux, Runs on Mac OS

Resource Name: Analysis of Functional NeuroImages

Resource ID: SCR_005927

Alternate IDs: nif-0000-00259

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

Record Creation Time: 20220129T080233+0000

Record Last Update: 20260805T044128+0000

Ratings and Alerts

No rating or validation information has been found for Analysis of Functional NeuroImages.

No alerts have been found for Analysis of Functional NeuroImages.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2107 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Jain N, et al. (2026) T1-weighted fMRI in mouse visual cortex using an iron oxide nanoparticle contrast agent and UTE imaging at 9.4 T. Magnetic resonance in medicine, 95(2), 680.

Nazmuddin M, et al. (2026) Stereotactic lesioning of cholinergic cells by injection of ME20.4 Saporin in the nucleus basalis of Meynert in a rhesus monkey (Macaca mulatta). Journal of neuropathology and experimental neurology, 85(1), 58.

Wu S, et al. (2026) Forgiveness updates interpersonal memories to be less negative. Emotion (Washington, D.C.).

McDevitt EA, et al. (2026) The Role of Rapid Eye Movement Sleep in Neural Differentiation of Memories in the Hippocampus. Journal of cognitive neuroscience, 38(1), 126.

King JA, et al. (2025) Exaggerated frontoparietal control over cognitive effort-based decision-making in young women with anorexia nervosa. Molecular psychiatry, 30(3), 861.

Gillig A, et al. (2025) GINNA, a 33 resting-state networks atlas with meta-analytic decoding-based cognitive characterization. Communications biology, 8(1), 253.

Frank LR, et al. (2025) Imaging of brain electric field networks with spatially resolved EEG. eLife, 13.

Gross WL, et al. (2025) Predicting memory decline from left temporal lobe epilepsy surgery using preoperative fMRI: a multicenter study. NeuroImage. Clinical, 46, 103804.

Goncalves M, et al. (2025) fMRIPrep Lifespan: Extending A Robust Pipeline for Functional MRI Preprocessing to Developmental Neuroimaging. bioRxiv : the preprint server for biology.

Hampson CL, et al. (2025) Habenula alterations in resting state functional connectivity among autistic individuals. bioRxiv : the preprint server for biology.

Calabro FJ, et al. (2025) Developmental decorrelation of local cortical activity through adolescence supports high-dimensional encoding and working memory. *Developmental cognitive neuroscience*, 73, 101541.

Germani E, et al. (2025) Predicting Parkinson's disease trajectory using clinical and functional MRI features: A reproduction and replication study. *PloS one*, 20(2), e0317566.

Escalante ES, et al. (2025) Differences in risk appraisal and neural activity in adolescents with a history of misconduct. *Social cognitive and affective neuroscience*, 20(1).

Beltrán J, et al. (2025) VTA network dominance in depression confers distinct psychopathological states through blunted neural tracking of reward prediction errors. *Research square*.

España LY, et al. (2025) Investigating the Association of Concussion and Contact Sport Exposure History With Brain Microstructure Using Quantitative Susceptibility Mapping. *Human brain mapping*, 46(5), e70213.

Rosas-Vidal LE, et al. (2025) Prefrontal correlates of fear generalization during endocannabinoid depletion. *The Journal of clinical investigation*, 135(11).

Hargreaves TL, et al. (2025) Brain structural magnetic resonance imaging predictors of brief intervention response in individuals with alcohol use disorder. *Alcohol and alcoholism (Oxford, Oxfordshire)*, 60(3).

O' Brien S, et al. (2025) Intranasal oxytocin modulates brain activity during emotional processing in children with treatment resistant conduct problems. *Scientific reports*, 15(1), 11422.

Darcey VL, et al. (2025) Striatal dopamine tone is positively associated with adiposity in humans as determined by PET using dual dopamine type-2 receptor antagonist tracers. *Molecular psychiatry*, 30(8), 3708.

Pennington KR, et al. (2025) Basal forebrain activation improves working memory in senescent monkeys. *Brain stimulation*, 18(2), 185.