Resource Summary Report

Generated by NIF on May 1, 2025

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

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: 20250501T080738+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 1946 mentions in open access literature.

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

Heukamp NJ, et al. (2025) Beyond the chronic pain stage: default mode network perturbation depends on years lived with back pain. Pain, 166(1), 160.

Gonzalez Alam TRJ, et al. (2025) A double dissociation between semantic and spatial cognition in visual to default network pathways. eLife, 13.

Kidder A, et al. (2025) Distributed Cortical Regions for the Recall of People, Places, and Objects. eNeuro, 12(1).

Widegren E, et al. (2025) Fear extinction retention in children, adolescents, and adults. Developmental cognitive neuroscience, 71, 101509.

Djimbouon F, et al. (2025) Shorter and inflexible intrinsic neural timescales of the self in schizophrenia. Journal of psychiatry & neuroscience : JPN, 50(1), E57.

Isherwood S, et al. (2025) Multi-study fMRI outlooks on subcortical BOLD responses in the stop-signal paradigm. eLife, 12.

Tashjian SM, et al. (2025) Subregions in the ventromedial prefrontal cortex integrate threat and protective information to meta-represent safety. PLoS biology, 23(1), e3002986.

Heyn SA, et al. (2025) Differential gray matter correlates and machine learning prediction of abuse and internalizing psychopathology in adolescent females. Scientific reports, 15(1), 651.

Thielen J, et al. (2024) Amodal completion across the brain: The impact of structure and knowledge. Journal of vision, 24(6), 10.

Taylor PA, et al. (2024) A Set of FMRI Quality Control Tools in AFNI: Systematic, in-depth and interactive QC with afni_proc.py and more. bioRxiv : the preprint server for biology.

Deen B, et al. (2024) A familiar face and person processing area in the human temporal pole. Proceedings of the National Academy of Sciences of the United States of America, 121(28), e2321346121.

Leon Guerrero S, et al. (2024) Distinct functional connectivity patterns during naturalistic learning by adolescent first versus second language speakers. Scientific reports, 14(1), 18984.

Firouzi M, et al. (2024) Enhanced ADHD classification through deep learning and dynamic resting state fMRI analysis. Scientific reports, 14(1), 24473.

Jang H, et al. (2024) Thalamic Roles in Conscious Perception Revealed by Low-Intensity Focused Ultrasound Neuromodulation. bioRxiv : the preprint server for biology.

Nitsch A, et al. (2024) Grid-like entorhinal representation of an abstract value space during prospective decision making. Nature communications, 15(1), 1198.

Rosas-Vidal LE, et al. (2024) PREFRONTAL CORRELATES OF FEAR GENERALIZATION DURING ENDOCANNABINOID DEPLETION. bioRxiv : the preprint server for biology.

Haller SP, et al. (2024) Changes in Internalizing Symptoms During the COVID-19 Pandemic in a Transdiagnostic Sample of Youth: Exploring Mediators and Predictors. Child psychiatry and human development, 55(1), 206.

Öz G, et al. (2024) MR Imaging in Ataxias: Consensus Recommendations by the Ataxia Global Initiative Working Group on MRI Biomarkers. Cerebellum (London, England), 23(3), 931.

Chen F, et al. (2024) Alterations in Dynamic Functional Connectivity in Patients with Cerebral Small Vessel Disease. Translational stroke research, 15(3), 580.

Kral TRA, et al. (2024) Intergenerational effects of racism on amygdala and hippocampus resting state functional connectivity. Scientific reports, 14(1), 17034.