Resource Summary Report

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XNAT Central

RRID:SCR_006235
Type: Tool

Proper Citation

XNAT Central (RRID:SCR_006235)

Resource Information

URL: http://central.xnat.org

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Description: Online repository of open access images including MR Sessions, MRI, Freesurfer APARC, Freesurfer ASEGs, Clinical Assessments, Atlas Scaling Factors, and Fast Segmentations data. CENTRAL currently contains 374 Projects, 3808 Subjects, and 5174 Imaging Sessions (June 2014). Central is powered by XNAT (The Extensible Neuroimaging Archive Toolkit), an open source software platform designed to facilitate management and exploration of neuroimaging and related data. XNAT includes a secure database backend and a rich web-based user interface.

Abbreviations: XNAT Central

Synonyms: Extensible Neuroimaging Archive Toolkit CENTRAL

Resource Type: data or information resource, data repository, database, image repository, service resource, storage service resource

Keywords: magnetic resonance, pet, computed tomography, neuroimaging, mri, computer axial tomography imaging protocol, freesurfer aparc, freesurfer aseg, clinical assessment, atlas scaling factor, fast segmentation, image collection, clinical

Availability: Free, Freely available

Resource Name: XNAT Central

Resource ID: SCR_006235

Alternate IDs: nif-0000-04375, r3d100010874

Alternate URLs: https://doi.org/10.17616/R3533H

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260821T193753+0000

Ratings and Alerts

No rating or validation information has been found for XNAT Central.

No alerts have been found for XNAT Central.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 48 mentions in open access literature.

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

Xu Z, et al. (2026) Mapping individual molecular connectomes in Alzheimer's disease. Alzheimer's & dementia : the journal of the Alzheimer's Association, 22(3), e71310.

Li Y, et al. (2025) White matter dysfunction in Alzheimer's disease is associated with disease-related transcriptomic signatures. Communications biology, 8(1), 820.

Ioakeimidis V, et al. (2024) Protocol for a randomised controlled unblinded feasibility trial of HD-DRUM: a rhythmic movement training application for cognitive and motor symptoms in people with Huntington's disease. BMJ open, 14(7), e082161.

Ha?egan D, et al. (2024) Deconstructing the Mapper algorithm to extract richer topological and temporal features from functional neuroimaging data. Network neuroscience (Cambridge, Mass.), 8(4), 1355.

Wang MB, et al. (2024) Edge Density Imaging Identifies White Matter Biomarkers of Late-Life Obesity and Cognition. Aging and disease, 15(4), 1899.

Cheong RCT, et al. (2024) Enhancing paranasal sinus disease detection with AutoML: efficient AI development and evaluation via magnetic resonance imaging. European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery, 281(4), 2153.

Tanaka SC, et al. (2024) The status of MRI databases across the world focused on psychiatric and neurological disorders. Psychiatry and clinical neurosciences, 78(10), 563.

Fortel I, et al. (2023) Disrupted excitation-inhibition balance in cognitively normal individuals at risk of Alzheimer's disease. bioRxiv : the preprint server for biology.

Zhao R, et al. (2023) Whole-brain structure-function coupling abnormalities in mild cognitive impairment: a study combining amplitude of low-frequency fluctuations and voxel-based morphometry. Frontiers in neuroscience, 17, 1236221.

Griffa A, et al. (2023) Evidence for increased parallel information transmission in human brain networks compared to macaques and male mice. Nature communications, 14(1), 8216.

Libedinsky I, et al. (2023) Quantifying brain connectivity signatures by means of polyconnectomic scoring. bioRxiv : the preprint server for biology.

Ha?egan D, et al. (2023) Deconstructing the Mapper algorithm to extract richer topological and temporal features from functional neuroimaging data. bioRxiv : the preprint server for biology.

Zhang M, et al. (2023) Temporal Mapper: Transition networks in simulated and real neural dynamics. Network neuroscience (Cambridge, Mass.), 7(2), 431.

Singh MK, et al. (2023) Reproducibility and Reliability of Computing Models in Segmentation and Volumetric Measurement of Brain. Annals of neurosciences, 30(4), 224.

Aamir F, et al. (2023) Accelerated Diffusion-Weighted MR Image Reconstruction Using Deep Neural Networks. Journal of digital imaging, 36(1), 276.

Chuang KH, et al. (2023) Hemodynamic transient and functional connectivity follow structural connectivity and cell type over the brain hierarchy. Proceedings of the National Academy of Sciences of the United States of America, 120(5), e2202435120.

Geniesse C, et al. (2022) NeuMapper: A scalable computational framework for multiscale exploration of the brain's dynamical organization. Network neuroscience (Cambridge, Mass.), 6(2), 467.

Markello RD, et al. (2022) neuromaps: structural and functional interpretation of brain maps. Nature methods, 19(11), 1472.

Hebling Vieira B, et al. (2022) Predicting future cognitive decline from non-brain and multimodal brain imaging data in healthy and pathological aging. Neurobiology of aging, 118, 55.

Liu W, et al. (2022) Functional orderly topography of brain networks associated with gene expression heterogeneity. Communications biology, 5(1), 1083.