

Resource Summary Report

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XNAT - The Extensible Neuroimaging Archive Toolkit

RRID:SCR_003048

Type: Tool

Proper Citation

XNAT - The Extensible Neuroimaging Archive Toolkit (RRID:SCR_003048)

Resource Information

URL: <http://www.xnat.org>

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Description: Software platform designed to facilitate common management and productivity tasks for neuroimaging and associated data.

Abbreviations: XNAT

Synonyms: Extensible Neuroimaging Archive Toolkit, Extensible Neuroimaging Archive Toolkit (XNAT)

Resource Type: software resource, software application, source code, data management software, data processing software

Defining Citation: [PMID:17426351](#)

Keywords: analyze, client application, collaboration, data archive, data management, data sharing, data store, informatics, metadata, middleware, middleware engine, neuroinformatics, open source, productivity task, quality control, sharing, software platform, user interface, workflow, xml schema, neuroimaging, mri, processing, image, clinical, dicom, anonymization, clinical assessment, application, ct, database application, eeg, meg, ecog, java, magnetic resonance, nifti-1, os independent, pet, spect, platform, web environment, FASEB list

Funding: NIBIB R01 EB009352;
NIBIB U54 EB005149

Availability: Free, Available for download, Freely available

Resource Name: XNAT - The Extensible Neuroimaging Archive Toolkit

Resource ID: SCR_003048

Alternate IDs: nif-0000-00531

Alternate URLs: <http://www.nitrc.org/projects/xnat>, <https://sources.debian.org/src/xnat/>

License: BSD License

License URLs: <Http://www.xnat.org/about/license.php>

Record Creation Time: 20220129T080216+0000

Record Last Update: 20260808T185751+0000

Ratings and Alerts

No rating or validation information has been found for XNAT - The Extensible Neuroimaging Archive Toolkit.

No alerts have been found for XNAT - The Extensible Neuroimaging Archive Toolkit.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 66 mentions in open access literature.

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

Mohamed AZ, et al. (2026) The ASPIRE Research Institute Dataset: Building a Foundation for Brain Health Research in the United Arab Emirates. Scientific data, 13(1), 186.

Nguyen TT, et al. (2026) Multiple event segmentation mechanisms in the human brain. eLife, 14.

Sun W, et al. (2025) Precision Network Modeling of Transcranial Magnetic Stimulation Across Individuals Suggests Therapeutic Targets and Potential for Improvement. Human brain mapping, 46(11), e70266.

Hoagey DA, et al. (2025) The Knight Alzheimer Research Imaging (KARI) dataset: a comprehensive multimodal resource for exploring aging, preclinical, and symptomatic Alzheimer disease pathology. Research square.

Christensen R, et al. (2025) Single-centre, prospective cohort to predict optimal individualised treatment response in multiple sclerosis (POINT-MS): a cohort profile. BMJ open, 15(9), e103440.

Ambrogio S, et al. (2025) Independent Evaluation of a Commercial AI Software for Incidental Findings of Pulmonary Embolism (IPE) on a Large Hospital Retrospective Dataset. *Radiology research and practice*, 2025, 9091895.

Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. *Neuroradiology*, 67(7), 1649.

van de Braak C, et al. (2024) Non-contrast short MRI surveillance for HCC screening: the study protocol of the SMS-HCC prospective multicenter study. *European radiology experimental*, 8(1), 29.

Guerra A, et al. (2024) Clinical application of machine learning models in patients with prostate cancer before prostatectomy. *Cancer imaging : the official publication of the International Cancer Imaging Society*, 24(1), 24.

Galbusera F, et al. (2024) Image annotation and curation in radiology: an overview for machine learning practitioners. *European radiology experimental*, 8(1), 11.

Zhao C, et al. (2024) A reproducible and generalizable software workflow for analysis of large-scale neuroimaging data collections using BIDS Apps. *Imaging neuroscience (Cambridge, Mass.)*, 2.

Hokkinen L, et al. (2024) Factors influencing the reliability of a CT angiography-based deep learning method for infarct volume estimation. *BJR open*, 6(1), tzae001.

Hubbard NA, et al. (2024) The Human Connectome Project of adolescent anxiety and depression dataset. *Scientific data*, 11(1), 837.

Sun W, et al. (2024) Precision Network Modeling of Transcranial Magnetic Stimulation Across Individuals Suggests Therapeutic Targets and Potential for Improvement. *medRxiv : the preprint server for health sciences*.

George PM, et al. (2024) Evaluation of e-Lung automated quantitative computed tomography biomarkers in idiopathic pulmonary fibrosis. *ERJ open research*, 10(6).

Pustina D, et al. (2024) Bridging Huntington's disease research with big data science: Harmonized neuroimaging datasets from multiple studies. *Imaging neuroscience (Cambridge, Mass.)*, 2.

Luccas R, et al. (2023) Computed tomography and magnetic resonance imaging approaches to Graves' ophthalmopathy: a narrative review. *Frontiers in endocrinology*, 14, 1277961.

Orton MR, et al. (2023) Interpretability of radiomics models is improved when using feature group selection strategies for predicting molecular and clinical targets in clear-cell renal cell carcinoma: insights from the TRACERx Renal study. *Cancer imaging : the official publication of the International Cancer Imaging Society*, 23(1), 76.

Queder N, et al. (2023) NIDM-Terms: community-based terminology management for improved neuroimaging dataset descriptions and query. *Frontiers in neuroinformatics*, 17, 1174156.

Mufti N, et al. (2023) Assessment of longitudinal brain development using super-resolution magnetic resonance imaging following fetal surgery for open spina bifida. *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*, 62(5), 707.