

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

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: 20260731T042640+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 57 mentions in open access literature.

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

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.

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.

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

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.

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.

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.

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.

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

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.

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.

Lanskey JH, et al. (2022) New Therapeutics in Alzheimer's Disease Longitudinal Cohort study (NTAD): study protocol. *BMJ open*, 12(12), e055135.

Fu X, et al. (2022) Spatial patterns of tumour growth impact clonal diversification in a computational model and the TRACERx Renal study. *Nature ecology & evolution*, 6(1), 88.

Etzel JA, et al. (2022) The Dual Mechanisms of Cognitive Control dataset, a theoretically-guided within-subject task fMRI battery. *Scientific data*, 9(1), 114.

Vaghari D, et al. (2022) A multi-site, multi-participant magnetoencephalography resting-state dataset to study dementia: The BioFIND dataset. *NeuroImage*, 258, 119344.

Vainio T, et al. (2021) Performance of a 3D convolutional neural network in the detection of hypoperfusion at CT pulmonary angiography in patients with chronic pulmonary embolism: a feasibility study. *European radiology experimental*, 5(1), 45.

Hokkinen L, et al. (2021) Evaluation of a CTA-based convolutional neural network for infarct volume prediction in anterior cerebral circulation ischaemic stroke. *European radiology experimental*, 5(1), 25.