

Resource Summary Report

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NiBabel

RRID:SCR_002498

Type: Tool

Proper Citation

NiBabel (RRID:SCR_002498)

Resource Information

URL: <http://nipy.org/nibabel/>

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Description: A Python package for reading and writing a variety of medical and neuroimaging file formats. This includes: ANALYZE (plain, SPM99, SPM2), NIfTI1, as well as MINC. NiBabel is the successor of PyNiftI.

Abbreviations: NiBabel

Synonyms: NIPY File IO

Resource Type: software resource

Keywords: magnetic resonance, python, neuroimaging

Availability: Free, Available for download, Freely available

Resource Name: NiBabel

Resource ID: SCR_002498

Alternate IDs: nlx_155896

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

License: BSD License, MIT License

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260725T190523+0000

Ratings and Alerts

No rating or validation information has been found for NiBabel.

No alerts have been found for NiBabel.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 122 mentions in open access literature.

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

Flagan TM, et al. (2025) Functional Connectivity Associations With Markers of Disease Progression in GRN Pathogenic Variant Carriers. *Annals of clinical and translational neurology*, 12(12), 2575.

Xiao Y, et al. (2025) Enhancing Deep Learning-Based Subabdominal MR Image Segmentation During Rectal Cancer Treatment: Exploiting Multiscale Feature Pyramid Network and Bidirectional Cross-Attention Mechanism. *International journal of biomedical imaging*, 2025, 7560099.

Jia H, et al. (2025) Cortical thickness deviations as biomarker for subtyping and prognosis in pediatric brainstem tumors. *Scientific reports*, 15(1), 13132.

Gifford AT, et al. (2025) In silico discovery of representational relationships across visual cortex. *Nature human behaviour*, 9(10), 2079.

van Paassen R, et al. (2025) Patellar and Femoral Bone Morphology Is Associated With Overweight and Sports Participation in Young Adolescents. *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*, 43(12), 2221.

Griffiths-King D, et al. (2025) Ratio maps of T1w/T2w MRI signal intensity do not improve deep-learning segmentation of pediatric brain tumors. *PloS one*, 20(12), e0323398.

Jaiswal A, et al. (2025) Pseudo-MRI Engine for MRI-Free Electromagnetic Source Imaging. *Human brain mapping*, 46(2), e70148.

Motaghi M, et al. (2025) Commonalities in cortical neurodegeneration between type 2 diabetes and Alzheimer's disease. *Journal of Alzheimer's disease : JAD*, 107(3), 1304.

Almaaz H, et al. (2025) A Lesion-Aware Patch Sampling Approach with EfficientNet3D-UNet for Robust Multiple Sclerosis Lesion Segmentation. *Journal of imaging*, 11(10).

Comino Garcia Muñoz A, et al. (2025) Characterization of experimental cerebral malaria by volumetric MRI A comparative study across the sexes. *PloS one*, 20(8), e0328693.

Kim H, et al. (2025) A novel deep learning-based brain age prediction framework for routine clinical MRI scans. *npj aging*, 11(1), 70.

Zughayyar I, et al. (2025) A FastSurfer Database for Age-Specific Brain Volumes in Healthy Children: A Tool for Quantifying Localized and Global Brain Volume Alterations in Pediatric Patients. *Brain and behavior*, 15(7), e70689.

Zbinden L, et al. (2025) Automated quantification of T1 and T2 relaxation times in liver mpMRI using deep learning: a sequence-adaptive approach. *European radiology experimental*, 9(1), 58.

Luo G, et al. (2025) Generative priors for MRI reconstruction trained from magnitude-only images using phase augmentation. *Philosophical transactions. Series A, Mathematical, physical, and engineering sciences*, 383(2299), 20240323.

Chen H, et al. (2025) A feasibility study of [18F] FDG PET/CT radiomics in predicting high-risk cytogenetic abnormalities in multiple myeloma. *EJNMMI research*, 15(1), 131.

Hosseini MS, et al. (2025) Cross-regional radiomics: a novel framework for relationship-based feature extraction with validation in Parkinson's disease motor subtyping. *BioData mining*, 18(1), 67.

Renugadevi M, et al. (2025) A novel hybrid vision UNet architecture for brain tumor segmentation and classification. *Scientific reports*, 15(1), 23742.

Randhawa P, et al. (2025) Quantitative dual-isotope preclinical SPECT/CT imaging and biodistribution of the mercury-197m/g theranostic pair with [197m/gHg]HgCl₂ and a [197m/gHg]Hg-tetrathiol complex as a platform for radiopharmaceutical development. *EJNMMI radiopharmacy and chemistry*, 10(1), 67.

Germani E, et al. (2025) HCP Multi-Pipeline: a derived dataset to investigate analytical variability in fMRI. *Scientific data*, 12(1), 940.

Li G, et al. (2025) Interpretable Artificial Intelligence Analysis of Functional Magnetic Resonance Imaging for Migraine Classification: Quantitative Study. *JMIR medical informatics*, 13, e72155.