

Resource Summary Report

Generated by SPARC SAWG on Aug 7, 2026

NiftyPET

RRID:SCR_015873

Type: Tool

Proper Citation

NiftyPET (RRID:SCR_015873)

Resource Information

URL: <https://github.com/pjmark/NiftyPET>

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Description: Python software package that offers quantitative PET image reconstruction and analysis with high accuracy and precision. It is written in CUDA C and embedded in Python C extensions.

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

Defining Citation: [DOI:10.1007/s12021-017-9352-y](https://doi.org/10.1007/s12021-017-9352-y)

Keywords: python, cuda c, python c, pet, image reconstruction, image analysis, bio.tools

Availability: Free, Available for download, Runs on Windows, Runs on Linux

Resource Name: NiftyPET

Resource ID: SCR_015873

Alternate IDs: biotools:niftypet

Alternate URLs: <https://bio.tools/niftypet>

License: Apache License 2.0

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260807T042843+0000

Ratings and Alerts

No rating or validation information has been found for NiftyPET.

No alerts have been found for NiftyPET.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Ashrafi M, et al. (2026) Metabolism-weighted brain connectome reveals synaptic integration and vulnerability to neurodegeneration. Proceedings of the National Academy of Sciences of the United States of America, 123(26), e2531706123.

Blazey T, et al. (2024) Hyperglycemia selectively increases cerebral non-oxidative glucose consumption without affecting blood flow. bioRxiv : the preprint server for biology.

Castrillon G, et al. (2023) An energy costly architecture of neuromodulators for human brain evolution and cognition. Science advances, 9(50), eadi7632.

Xin L, et al. (2023) Guided block matching and 4-D transform domain filter projection denoising method for dynamic PET image reconstruction. EJNMMI physics, 10(1), 59.

Pemberton HG, et al. (2022) Quantification of amyloid PET for future clinical use: a state-of-the-art review. European journal of nuclear medicine and molecular imaging, 49(10), 3508.

Scott CJ, et al. (2019) Reduced acquisition time PET pharmacokinetic modelling using simultaneous ASL-MRI: proof of concept. Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism, 39(12), 2419.

Markiewicz PJ, et al. (2018) NiftyPET: a High-throughput Software Platform for High Quantitative Accuracy and Precision PET Imaging and Analysis. Neuroinformatics, 16(1), 95.