

Resource Summary Report

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

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: 20260905T132800+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 [PRECISE-TBI](#).

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.