Resource Summary Report

Generated by NIF on Apr 21, 2025

PMOD Software

RRID:SCR_016547
Type: Tool

Proper Citation

PMOD Software (RRID:SCR_016547)

Resource Information

URL: http://www.pmod.com

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Description: Software environment for the quantification of biomedical images. Biomedical image processing, analysis, and modeling software. Consists of set of tools for kinetic modeling, parametric mapping, image registration, 3D rendering and pattern analysis. Used for quantification of PET data. Many quantification methods are generic and can be applied to other modalities such as SPECT, MR and CT.

Abbreviations: PMOD

Synonyms: PMOD 4.2, PMOD 4.0, PMOD, PET Modeling

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

Keywords: PMOD Technologies LLC, Kinetic modeling, quantification, PET, SPECT, MR, CT, DICOM, receptor, binding potential, distribution volume, dynamic images, motion correction, brain parcellation, partial volume correction, image registration, parametric mapping, cardiac, perfusion, gated, CFD simulation, vessel model, 3D, 4D flow, PERCIST, contouring, Alzheimer's discrimination, dosimetry

Funding:

Availability: Commercially available, Training available

Resource Name: PMOD Software

Resource ID: SCR_016547

Alternate URLs: https://www.pmod.com/web/

Record Creation Time: 20220129T080331+0000

Record Last Update: 20250421T054126+0000

Ratings and Alerts

No rating or validation information has been found for PMOD Software.

No alerts have been found for PMOD Software.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 90 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Deery HA, et al. (2024) The association of regional cerebral blood flow and glucose metabolism in normative ageing and insulin resistance. Scientific reports, 14(1), 14574.

Fonseca ICF, et al. (2024) Improved Chemical and Radiochemical Synthesis of Neuropeptide Y Y2 Receptor Antagonist N-Methyl-JNJ-31020028 and Preclinical Positron Emission Tomography Studies. Pharmaceuticals (Basel, Switzerland), 17(4).

Sportelli L, et al. (2024) Dopamine signaling enriched striatal gene set predicts striatal dopamine synthesis and physiological activity in vivo. Nature communications, 15(1), 3342.

Wegrzyniak O, et al. (2024) Non-invasive PET imaging of liver fibrogenesis using a RESCA-conjugated Affibody molecule. iScience, 27(5), 109688.

Strohl JJ, et al. (2024) Brain imaging and machine learning reveal uncoupled functional network for contextual threat memory in long sepsis. Scientific reports, 14(1), 27747.

Spelta LEW, et al. (2024) Impact of cannabidiol on brain glucose metabolism of C57Bl/6 male mice previously exposed to cocaine. Journal of neuroscience research, 102(4), e25327.

Liu FT, et al. (2023) 18F-Florzolotau PET imaging captures the distribution patterns and regional vulnerability of tau pathology in progressive supranuclear palsy. European journal of

nuclear medicine and molecular imaging, 50(5), 1395.

Straat ME, et al. (2023) Stimulation of the beta-2-adrenergic receptor with salbutamol activates human brown adipose tissue. Cell reports. Medicine, 4(2), 100942.

Kolabas ZI, et al. (2023) Distinct molecular profiles of skull bone marrow in health and neurological disorders. Cell, 186(17), 3706.

Volpi T, et al. (2023) An update on the use of image-derived input functions for human PET studies: new hopes or old illusions? EJNMMI research, 13(1), 97.

Spies M, et al. (2023) Impact of genetic variants within serotonin turnover enzymes on human cerebral monoamine oxidase A in vivo. Translational psychiatry, 13(1), 208.

Murgaš M, et al. (2023) Effects of bilateral sequential theta-burst stimulation on 5-HT1A receptors in the dorsolateral prefrontal cortex in treatment-resistant depression: a proof-of-concept trial. Translational psychiatry, 13(1), 33.

Handschuh PA, et al. (2023) Effect of MAOA DNA Methylation on Human in Vivo Protein Expression Measured by [11C]harmine Positron Emission Tomography. The international journal of neuropsychopharmacology, 26(2), 116.

Patronas EM, et al. (2023) A fingerprint of 2-[18F]FDG radiometabolites - How tissue-specific metabolism beyond 2-[18F]FDG-6-P could affect tracer accumulation. iScience, 26(11), 108137.

Nguyen TDT, et al. (2023) Sequential Targeting of Retinoblastoma and DNA Synthesis Pathways Is a Therapeutic Strategy for Sarcomas That Can Be Monitored in Real Time. Cancer research, 83(6), 939.

Laing BT, et al. (2023) Anterior hypothalamic parvalbumin neurons are glutamatergic and promote escape behavior. Current biology : CB, 33(15), 3215.

Wuehr M, et al. (2023) Repetitive Low-Intensity Vestibular Noise Stimulation Partly Reverses Behavioral and Brain Activity Changes following Bilateral Vestibular Loss in Rats. Biomolecules, 13(11).

Pieri V, et al. (2023) Aberrant L-Fucose Accumulation and Increased Core Fucosylation Are Metabolic Liabilities in Mesenchymal Glioblastoma. Cancer research, 83(2), 195.

Hanna C, et al. (2022) Exercise Modulates Brain Glucose Utilization Response to Acute Cocaine. Journal of personalized medicine, 12(12).

de Vor L, et al. (2022) Human monoclonal antibodies against Staphylococcus aureus surface antigens recognize in vitro and in vivo biofilm. eLife, 11.