

MGH Gordon PET Core

Positron Emission Tomography (PET) imaging of human subjects, and large and small animals at Massachusetts General Hospital (MGH)



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www.partners.org/researchcores/imaging/PET_MGH.asp

The Core has synthesized over 20 compounds for clinical evaluation and routine use for neurology, cardiology and oncology. In addition, the Core has pioneered the use of ¹⁸F Tau imaging agents for neurodegenerative diseases such as Alzheimer's disease and traumatic brain injuries.

Neurology

18F-FDG – Labeled analog of glucose
18F-FPEB – mGluR5
18F-T807 – Tau protein
18F-THK-5351 (GE-216) – Tau protein
18F-MK6240 – Tau protein
18F-GE180 - TSPO
11C-PBR28 - TSPO
11C-PiB – Beta amyloid
11C-Raclopride – D2 receptor
11C-Altropane – Dopamine transport
11C-P943 – 5HT1B receptor
11C-Rolipram - phosphodiesterase-4
11C-MeNER (Methylreboxetine) – norepinephrine transporter (NET)
15O-CO2 – Brain blood flow

Cardiology & Pulmonary Care

18F-BFPET – Blood flow, cardiac perfusion
13N-Ammonia – Myocardial perfusion
11C-CO (gas) – Blood pool
13N-N2 in Saline – Lung perfusion

Oncology

18F-FDG – Labeled analog of glucose
18F-FES - Labeled analog of estrogen
18F-FMISO – Tumor hypoxia
18F-FLT – Tumor proliferation (thymidine kinase-1)
11C-Methionine - Amino acid
11C-Acetate – Fatty acid synthase

For Animal Use Only

11C-PHNO	18F-Fallypride
18F-FLT	18F-FACBC
18F-Fluoroacetate	18F-FMISO
18F-FHBG	18F-Fluorocholeline