



Yale University PET Center Resources and Capabilities

Welcome to a state-of-the-art PET facility dedicated to providing the highest quality of nuclear imaging research. In addition to experienced faculty and staff, our center offers:

- Onsite nursing and physiological monitoring
- Arterial line placement and monitoring
- GE PETtrace cyclotron, targetry for producing 11C, 18F, 13N, and 15O
- 2 clinical PET scanners including a Siemens whole body PET/CT scanner and a Siemens HRRT- high resolution brain scanner
- 3 scanners for small animal imaging: 2 Focus-220, Inveon PET/CT
- State-of-the-art motion correction
- Radiochemistry laboratory with modules to produce a wide variety of radiotracers
- Over 50 different radiotracers injected in humans since 2004.
- Over 700 human radiotracer injections and over 500 pre-clinical injections per year.
- Chemistry SOPs - high quality standards for safety, production, use
- cGMP (Good Manufacturing Practices compliant)
- Fully equipped laboratory for blood and metabolite analyses
- Image analysis laboratory and image analysis software applications
- Collaborative opportunities (close proximity to Yale School of Medicine Departments, Research Centers, and Yale-New Haven Hospital)

What PET Research is being Conducted at Yale?

Yale scientists utilize PET in pre-clinical and human research studies to examine brain activity and chemical mechanisms involved in diseases such as schizophrenia, depression, PTSD, Alzheimer's disease, Parkinson's disease, epilepsy, alcohol dependence, and substance abuse. Outside the brain, PET studies at Yale focus on cancer, diabetes, and cardiac applications. The Yale PET Center consistently has over 40 active grants.

The Yale PET Center collaborates with industry partners on a variety of research initiatives including methodology studies, new tracer development, pre-clinical research, and clinical trials in healthy control subjects and patients.

Clinical Trial Experience

We provide IRB and FDA regulatory support, protocol/consent review, training, and setup/completion of PET scanning procedures.

Ongoing or recently complete trials include: NCT03605836, NCT02602860 and NCT03100136.

Siemens Biograph mCT (PET/CT camera)



PET Project Management

The PET Center is able to manage all aspects of clinical trial execution, including recruitment of healthy research participants, development of source documents, and maintenance of a trial master file. All studies are conducted by staff trained in Good Clinical Practice (GCP).

Hospital Research Unit (HRU) Resources for Clinical Studies

In addition to PET Center resources, we have access to house research participants overnight at the HRU, located on the 10th floor of Yale New Haven Hospital, which features:

- Skilled nursing staff focused on patient safety
- 10 bed/chair spaces for inpatient or outpatient studies
- Laboratory Services (processing/freezing PK samples)
- Bionutrition Unit
- Core Lab including a -20° Freezer
- Medication room for storage of Investigational Product

Yale University PET Center



801 Howard Ave.
New Haven, CT 06520-8048
<http://petcenter.yale.edu/>