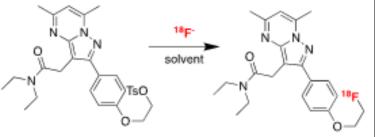
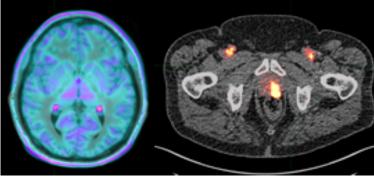
# Radiochemistry Core





## **About Us**

The principle focus of the Radiochemistry Core (RADCHEM) is to provide investigators access to new and existing molecular imaging agents, which can be detected by Positron Emission Tomography (PET) or Single Photon Emission Computed Tomography (SPECT), for their research programs.

In addition to providing these services to investigators, we are happy to offer training on any of our instrumentation for investigators to use on a fee-for-service basis.

We are a full-scale service program. We are happy to assist investigators with study planning, regulatory submissions (IND, RDRC, etc), data analysis, and any other study need.



#### Instrumentation

- Hidex AMG fully automated gamma counter capable of detecting radioisotopes with emission energies ranging from 100 – 4,000 kEv. The AMG will tare and weigh empty or full vials and will decay-correct to specified time.
  Practical uses include:
  - O in vitro radiopharmaceutical binding assays
  - O in vitro radiopharmaceutical accumulation assays
  - O ex vivo tissue biodistribution assays

### **Our Services**

#### **Custom Chemical Synthesis**

- Custom small molecules
- Identity Standards
- Radiochemical Precursors

#### **RADCHEM - Preclinical**

- Custom radiochemical synthesis of a variety of radiopharmaceuticals for PET or SPECT imaging.
- [18F]FDG glucose transport
- [18F]DPA-714 TSPO expression
- [11C]Carfentanil Mu (μ) opioid receptor
- [18F]FET primary brain tumors
- [11C]Methionine primary brain tumors lowgrade glioma
- [18F]DCFPyl prostate cancer PSMA
- [18F]Fcholine metastatic prostate cancer, hepatocellular carcinoma
- [18F]FDOPA LAT1-overexpressing tumors; CNS tumors.
- [18F]FLT head-and-neck tumors, cell proliferation
- [18F]FMISO tumor hypoxia status

#### **RADCHEM - Human**

 The Radiochemistry Core is a USP <823> production facility and can produce PET imaging agents for clinical research studies. Please contact Shivashankar Khanapur to discuss your project.



Enhancing Research, Rigor and Reliability

#### **Our Team**

**Shivashankar Khanapur, PhD-** Director Assistant Professor of Radiology Research and Medical Imaging

**Damodara Naidu Kommi, PhD** - Lab Specialist Senior



The RADCHEM provides access to

# molecular imaging agents

#### **Contact**

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Request services on: uva.corefacilities.org/account/login

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