

## PRECLINICAL PET IMAGING PLATFORM

In vivo Imaging modalities for small animals.  
Radio pharmacy facility and cyclotron easy access for new radiotracers. Development for preclinical studies.

### SCIENTIFIC EXPERTISE

- In vivo imaging and nuclear medicine (PET/CT)
- Radiochemistry
- Hemato-Oncology, cardiology, neurology

### APPLICATIONS

- Biomedical and preclinical proof of concept studies for new therapeutic or new nuclear imaging agents
- Radiotracer synthesis for production process optimization
- Biodistribution data acquisition for FDA/EMA approval submission

### CONTACT

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Hematology ■ Cell adhesion ■ Microfluidics ■ Blood ■  
Nuclear Imaging ■ Functional imaging ■ PET ■ PET/CT ■ Radio pharmacy ■  
Radiotracer ■ Animal model ■ Preclinical studies ■ Translational research

### SERVICE DESCRIPTION

The Kellershohn in vivo imaging platform benefits from the clinical environment and translational research know how of the prestigious St Louis Hospital in Paris. The platform offers two types of services:

- Functional preclinical imaging services for small rodent models (mouse) with  $\mu$ PET scan coupled facilities
- A radio pharmacy lab for the development and preparation of  $^{18}\text{F}$  labelled radiotracers for research studies on animal models

The platform is also equipped with anesthesia and injection equipment and is connected with a cyclotron on site.

It can propose commercial and in house developed radiotracers such as:

- $^{18}\text{F}$ -MEL050, a melanin specific ligand (melanoma detection)
- $^{18}\text{F}$ -FLT, a thymidine analog, used to track new DNA synthesis
- $^{18}\text{F}$ -FEPPA, a specific ligand of TSPO (neuro-inflammation detection)



$\mu$ PET/CT INVEON (SIEMENS)



Encintes pour la radioynthèse et conditionnement aseptique des radiotraceurs pour expérimentation pré-clinique et à usage humain

PET/CT Inveon (Siemens)  
(source: <http://www.univ-paris-diderot.fr/IUH/pg.php?np=34>)

Radio synthesis chamber

### OFFER

- Collaborative studies for new radiotracers development
- Collaborative studies or research services for efficiency evaluation of new radiotracers
- Research services for efficiency evaluation of new therapeutic agents