

ICMI BRUSSELS



The In Vivo Cellular and Molecular Imaging (ICMI) Laboratory of the Vrije Universiteit Brussel (VUB) is a multidisciplinary team dedicated to the development of quantitative molecular imaging for the investigation of specific biological questions. The team consists of medical doctors, physicists, chemists, pharmacists, biomedical scientists, bioengineers, molecular biologists and lab technicians. Together we aim to develop new imaging methods and probes that can be translated to innovative clinical applications.

Research axes & Expertise

- Nanobody technology as a generic method for preclinical and clinical molecular imaging and Radionuclide Therapy
- Radiochemistry development for PET and SPECT.
- Intraoperative imaging

Equipment:

Nanobody generation unit, Radiopharmacy/chemistry unit, Cyclotron, MicroSPECT/PET/CT, MicroMRI, MicroCT, NIR Fluorescence imaging platform, Bioluminescence, Ultrasound

Application fields

Translational imaging and Radionuclide therapy of molecular targets in

- Oncology
- Inflammation (macrophage tracking, arthritis,..)
- Cardiology (atherosclerosis,..)
- Intra-operative imaging using Near Infrared Fluorescence Image Reconstruction

Contact

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