

CMMI - IN VIVO MOLECULAR IMAGING



The Center for Microscopy and Molecular Imaging (CMMI) in Charleroi has been established with the financial support of the European Union and the Walloon Region (FEDER Convergence Program). Founded by the Académie Universitaire Wallonie-Bruxelles, CMMI brings together expertise of the researchers and academics of the Université Libre de Bruxelles and the Université de Mons to provide an integrated and efficient preclinical imaging platform for the scientific community.

Research axes & Expertise

The Nuclear Molecular Imaging lab of the CMMI, vMIx, is conducting research and proposing services in preclinical nuclear imaging by PET, SPECT and CT using last generation cameras (Bioscan, USA). SPECT and PET cameras provide 3D quantitative images depicting the radiotracer distribution, which reflects the function or metabolic activity of organs, tissues or tumours. Our cutting-edge equipment delivers images at sub-mm resolution with extremely high sensitivity (< pM). CMMI also proposes full radiolabelling services.

Application fields

Small animal SPECT and PET/CT is used for experimental biology, translational medicine and radiotracer validation. In particular, vMIx is specialized in:

- Oncology and neurooncology for tumour evaluation and therapy follow-up;
- Immunology, with antibody and T-cell imaging;
- Cell therapy safety and efficacy assessment through imaging of cell homing and trafficking.

Major projects/partnerships/collaborations

- ProsPECT (<http://www.biowin.org/biowin/fr/news/365-la-rd--nouvelles-en-bref.html>).
- Several collaborations and contracts with academic and industrial partners.

Key figures

Inaugurated in November 2011, 1 senior researcher, 2 technicians, integrated in a complete imaging platform for preclinical research

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