

CMMI - EX 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, vMlx, is conducting research and proposing services in preclinical nuclear imaging. To complement *in vivo* investigations, vMlx offers quantitative digital autoradiography facilities (MicroImager™, Biospace Lab, France), which provides high-resolution (μm range) and high-sensitivity 2D molecular imaging and allows direct quantitation (real counting of detected particles) of radiotracer distribution in histological slices. The MicroImager also allows simultaneous imaging and discrimination of different radionuclides.

Application fields

Digital autoradiography is used in radiotracer development, oncology, neurology and experimental biology. It bridges the gap between *in vitro* experiments and *in vivo* imaging and enables proper assessment of radiotracer uptake at the tissue level.

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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