



BIO *profiling*



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BIOPROFILING IN A FEW WORDS

The **BioProfiling platform** was established with the financial support of the European Union and Wallonia, under the **ERDF-ESF 2014-2020** programme. This project, involving teams from **UMONS and ULB**, is part of the Wallonia Biomed portfolio, which focuses on four key areas: imaging, immunology, human biological samples and BioProfiling. This project has received **3.4 million euro** of funding to acquire **advanced equipment for the identification and quantification of biological markers**.

The BioProfiling platform consists of **two perfectly complementary technological platforms: a «Meta-Vision» platform, dedicated to small molecules, and a «MS-Quanta» platform, shared with ULiège, dedicated to macromolecules (proteins)**. It is located at UMONS, which is recognised for its expertise in NMR spectroscopy (Nuclear Magnetic Resonance) and mass spectrometry, and already has many researchers and instruments in this field.

The platform is open to all in the biotechnology sector - universities, research centres, hospitals and businesses.

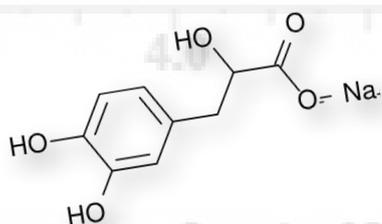
MÉTA-VISION

The "Méta-Vision" platform is based on **NMR technology** and will be dedicated to **metabolomics**. This innovative approach is used to analyse all the small molecules (MW < 1500 Da) present in a cell, an organ or a biological fluid at a given time, and under specific conditions, in order to identify a **metabolic signature**. The study of diseases and toxic effects caused by chemical substances or drug candidates is based on the relative intensities of each component of the signature.

EQUIPMENT

Spectrometer RMN 600 MHz Bruker AVANCE™

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APPLICATIONS

- > Metabolic analysis (NMR-based) in body fluids
- > Study of the mechanisms associated with toxic and pathological events
- > Identification of the **metabolic signatures** of a disease
- > Development of alternative methods to test the **effectiveness and/or toxicity** of chemical compounds and drug candidates

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