

High resolution MS

Mass spectrometry

Drug quantification

Biomarkers

Targeted analyses

Metabolite

Gel-free

Q-TOF

Gel-dependent

Electrophoresis

2D-DIGE

UPLC

2D-LC

LC-MSMS

Peptide sequencing

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Triple quadrupole

Proteomics analyses

Our research is supported by

DESCRIPTION

The University of Namur Mass Spectrometry platform (MaSUN) involves equipment from different research units of the departments of Pharmacy, Chemistry and Biology. Our aim is to provide support in mass spectrometry, proteomics analyses, gel electrophoresis to the UNamur students and staff. Our facility is also open to collaborate with other universities and public or private laboratories.

EXPERTISE

- Identification and characterization of small molecules.
- Targeted compounds quantification (biomarkers, drugs...).
- Proteomics analyses (gel-free or gel-dependent, label-free quantification).
- Peptidomics (profile analyses).
- Two dimensional HPLC (2D-LC).
- Gel electrophoresis including 2D-DIGE.

EQUIPMENT

MASS SPECTROMETERS		
LC-MS	UPLC-MSMS Xevo TQ-S (Waters)	High resolution nanoRSLC-MSMS maXis Impact (Bruker)
Characterization of small molecules	Biomarker and drug quantification	Protein identification in complex samples
GEL-DEPENDENT PROTEOMICS		
ELECTROPHORESIS	TYPHOON CONFOCAL SCANNER and SPOT PICKER ROBOT	DECYDER software
2D Ettan Dalt electrophoresis device	For fluorescence-labelled 2D gels	2D-DIGE image analysis
GEL-FREE PROTEOMICS		
High resolution nanoRSLC-MSMS	2D-LC	Mascot, Scaffold, Progenesis QI softwares
Protein identification in complex mixtures	Two dimensional HPLC separation	Proteomics data analysis and quantification

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