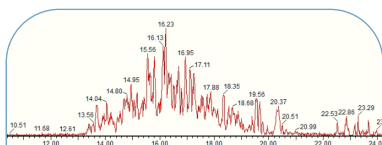


WHAT WE OFFER : SERVICES & EXPERTISE

- Proteomics consultancy, scientific and technical support at any step of the sample preparation
- Mass spectrometry experiments in such areas as identification and changes in protein expression, location of post-translational modifications, even in complex samples, intact protein analysis
- Bioinformatics consultancy and data analysis with appropriate informatic tools and software

MASSPROT

Proteomic & Protein Analysis by Mass spectrometry



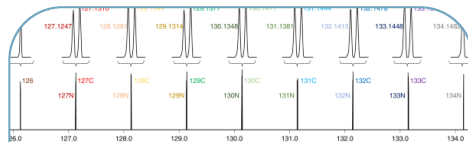
Chromatographic technology

- 1D nano-UPLC reverse phase chromatography
- High pH/low pH peptide fractionation
- Off-line fractionation of complex samples (HILIC, reverse phase, SCX)



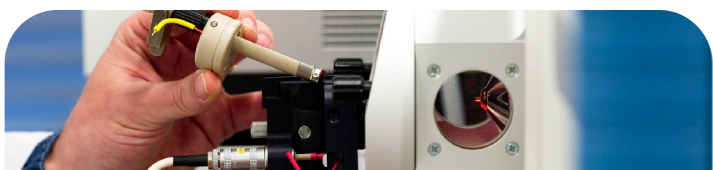
Mass spectrometry application

- ESI-LC-MS/MS (CID, HCD, ETD, ETHCD)
- Differential quantification : Isobaric (TMT), Label-free, Absolute quantification (Surequant)
- DDA or DIA MS/MS acquisition mode
- Infusion Electrospray ionization
- Ion mobility HDMS^E mode
- Post-transl. modification search
- Intact protein analysis
- Hydrogen/Deuterium exchange (HDx-MS)



Sample preparation

- Cell tissues crushing and protein extraction
- Soluble and membrane phases separation by ultracentrifugation
- Assay, solubilization and protein digestion (in gel, in solution)
- Zip-Tip desalting, SPE, concentration
- TiO₂ phosphopeptide purification
- Isobaric (TMT) and Isotopic labelling
- Detergent removal



Major equipment

- Orbitrap Fusion Lumos Tribrid Mass spectrometer (Thermo Scientific)
- Orbitrap Exploris 240 Mass spectrometer (Thermo Scientific)
- Synapt G2Si spectrometer (Waters)
- Acquity M-Class nano UPLC System (Waters)
- Ultimate 3000 and Vanquis Neo nano HPLC systems (Thermo Scientific)
- LEAP HDX Parallel-MF (Trajan)

CONTACT

At LIBST: Hervé Degand
herve.degand@uclouvain.be
+32(0)10/47.94.73

At DDUV: Didier Vertommen
didier.vertommen@uclouvain.be
+32(0)2/764.74.86



www.uclouvain.be/massprot

Picture credits : MASSPROT - Yvan Flamant

www.deduveinstitute.be/research-platform/massprot-core



At LIBST
Bâtiment Carnoy
Croix-du Sud, 4-5
Bte L7.07.01
1348 Louvain-la-Neuve
Belgium

At DDUV
Bâtiment ICP
Avenue Hippocrate, 75
Bte B1.75.02
1200 Woluwe-St-Lambert
Belgium

