



| Collaborative/ service platform |

## Mass Spectrometry Platform

### FIELD OF ACTIVITY

- Small molecule assays and analysis.
- Development of mass spectrometry and coupled liquid chromatography-mass spectrometry analytical techniques.
- Analysis of synthetic polymers and biological macromolecules using mass spectrometry.
- Proteomic analyses (identification of proteins by peptide mass mapping or MS/MS sequencing, screening for mutations/post-translational modifications, semi-quantitative protein analyses).
- Characterization of immuno-purified protein complexes: identification of interacting partners.
- Study of non-covalent interactions (protein-protein, polysaccharide-protein, DNA-ligand, protein-peptide and biomolecule- metal cation interactions).

### EQUIPMENT/FACILITIES

Mass spectrometry:

- /// Ion traps: SATURN 3 (Varian) and Esquire 3000 (Bruker).
- /// Triple quadrupole: API 2000 (Applied Biosystems).
- /// Q-TOF: QSTAR PULSAR i (Applied Biosystems).
- /// MALDI-TOF : Voyager DE STR (Applied Biosystems).
- /// Orbitrap : LTQ Orbitrap XL (Thermo Fisher Scientific) (*cf. photo*).

Separation techniques:

- /// HP3D capillary electrophoresis (Agilent).
- /// GC : Varian 3900.
- /// HPLC : Waters, Perkin Elmer, Merck.
- /// NanoLC: Ultimate 3000 and LC-Packings (Dionex).

Spectrophotometer:

- /// UV-visible spectrophotometer (Varian) and NanoDrop 1000 (Thermi Fisher Scientific).

**Host laboratory** Laboratory for Analysis and Modeling  
In Biology and the Environment (LAMBE)

#### Supervisory bodies

University Évre-Val-d'Essonne - CNRS - CEA

**Funding bodies** UEVE - CNRS - CEA -

CRIF - CG91 - MESR - Genopole®

**Director** Pr. Jeanine Tortajada

#### Platform Managers

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### ACCESS PROCEDURE

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