



Proteomics Instruments



The **LTQ FT-ultra** (Thermo Fisher) is a high resolution/high mass accuracy mass spectrometer ideally suited for proteomics studies using either top down or bottom up techniques.



The **Q-exactive** (Thermo Fisher) is an hybrid quadrupole-Orbitrap high resolution/high mass accuracy mass spectrometer useful for untargeted or targeted screening and a broad range of qualitative and quantitative analysis.



The **MALDI 4800 TOF/TOF** (ABI Sciex) is a tandem time-of-flight MS/MS system, providing not only peptide identification but peptide sequencing. It is also suitable for MW analysis of intact proteins.



The **TripleTOF** (Sciex) combines comprehensive qualitative exploration, rapid profiling, and HR/HMA quantitation on a single platform. Thanks to his speed and sensitivity it is ideal for targeted and untargeted proteomics, lipidomics and metabolomics applications.



1200 prep-LCHPLC (Agilent) Offline analytical HPLC system with quaternary pumps, variable wavelength UV detector and micro fraction collector. For pre-fractionation of complex protein digests prior to LC-MS/MS. Operates in either High pH reverse phase or SCX mode.



Softwares:

- Mascot (Matrix Science) and Sequest (Thermo Finnigan).
- Proteome Discoverer (Thermo Fisher)
- MaxQuant (Max Planck Institute of Biochemistry, Martinsried, Germany)
- Skyline (MacCoss Lab Software)
- Scaffold (Proteome Software)