

Clinical Proteomics



CLIC-IMAGING core facility at the University of Lille offers a wide range of mass spectrometry services for private and public laboratories. For your clinical investigations, we propose to apply advanced proteomics methods to further your knowledge of disease, pathways, targets and drugs effects. We offer Large scale proteins identification and relative quantification, study of post-translational modifications, biomarkers hunting, molecular histology of endogeneous and exogenous molecules.

CLIC-IMAGING will assist you throughout all steps of your project from your sample preparation to the data analysis.



- ✓ **Preparation services including** proteins extraction, in-gel or in-solution digestion, use of various enzymes, protein assay.
- ✓ **Mass spectrometry based analysis:** MALDI-TOF/TOF, MALDI-LTQ-Orbitrap, nanoLC coupled with HR-MS & MS/MS.
- ✓ **Innovative technologies:** Mass spectrometry imaging and spatially-resolved proteomics.
- ✓ **Data processing and statistical analysis** for identifications and relative quantification of markers.

All these cutting-edge mass spectrometry experimental combined to computational techniques allow you to obtain relevant biological significance.



Customers type

Academics • Companies



Modality

Service delivery • Service contract • Research contract



References

Centre Oscar Lambret • CHRU de Lille • OCR • OncolLille • Pierre Fabre • Institut Pasteur Paris

Keywords : Mass spectrometry based analysis; Mass spectrometry imaging; Spatially-resolved large scale proteomics; Multi-omics analysis.

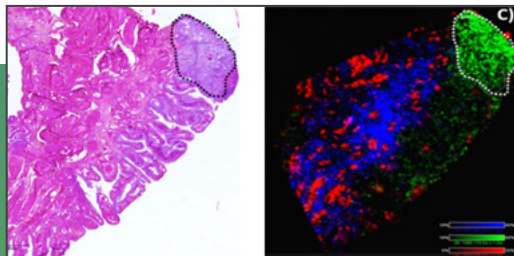
Expertise & Competences

- ✓ So far, we have successfully **analyzed** more than 5,000 samples, from over 30 different customers.
- ✓ **Expertise in large sample cohort analysis** (over 200 different samples).
- ✓ **Expertise with different Fresh frozen or FFPE samples** from isolated organs, biopsies, tissue sections, isolated cells layer, 2D or 3D cell culture, cell secretomes and body fluids (plasma, CSF).
- ✓ **Suited preparation to your sample** independently of the amount of material (large to micro-sample).
- ✓ **Combined multi-omics analysis** (metabolomics, lipidomics and proteomics).

The staff at the platform make their expertise available directly to the customer for the design, execution and analysis of your experiments.

Contact

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Avantages

- Access to next generation instruments (Rapiflex, Orbitrap and IMS QTof).
- Up-to-dated software for data analysis, proteins identification and label free quantification.

Members of CLIC-IMAGING platform lead research efforts in proteomics area to apply these cutting-edge methods to answer your question.

Publications

- *Biochim Biophys Acta Proteins Proteom.*, 2016.
doi: 10.1016/j.bbapap.2016.11.012
- *Biochim Biophys Acta Gen Subj.*, 2016.
doi: 10.1016/j.bbagen.2016.10.021
- *Molecular & Cellular Proteomics*, 2016.
doi: 10.1074/mcp.M115.057794
- *Scientific Reports*, 2015.
doi: 10.1038/srep18135
- *Molecular & Cellular Proteomics*, 2015.
doi: 10.1074/mcp.M115.052480



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