Dermatology & Cosmetology

IC IMAGING

CLIC-IMAGING core facility at the Unimass spectrometry services for private and public laboratories. We offer services around many domains as dermatology and cosmetics including Mass spectrometry imaging and (Micro-) proteomics dermatology and cosmetics studies are to allow a precise monitoring of compounds penetration, potential effects on lipids, proteins...), toxicity response and

CLIC-IMAGING will assist you throu-

- 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, ESI (IMS) Q-TOF, nanoLC coupled with orbitrap 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

Pharmaceutical groups specialized in cosmetology and dermatology • CIMI Paris

Keywords: Mass spectrometry based analysis; Mass spectrometry imaging; Skin penetration; Metabolites monitoring; 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 at a time).
- ✓ Expertise with different Fresh frozen and FFPE samples.
- Expertise with skin tissue, isolated skin layer, hair follicles (hair root and bulb).
- Suited preparation to your sample independently of the amount of material (large to micro-sample).
- ✓ Exogenous compounds targetting in skin substructures with MSI.
- ✓ 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

Professor Isabelle FOURNIER
Director of the platform
isabelle.fournier@univ-lille.fr

+33(0) 3 20 43 41 94



Avantages

- Access to next generation instruments (Rapiflex, Orbitrap and DESI-IMS QTof).
- True (un-)targeted discovery.
- Multi-Omics analysis

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 Gen Subj., 2016. doi: 10.1016/j.bbagen.2016.10.021
- Scientific Reports, 2016, doi: 10.1038/srep25919
- PLoS One, 2012, doi: 10.1371/journal.pone.0050180
- Anal Biochem., 2013, doi: 10.1016/j.ab.2012.10.035
- Methods Mol Biol., 2017, doi: 10.1007/978-1-4939-6952-4_2
- Methods Mol Biol. 2017, doi: 10.1007/978-1-4939-7051-3_6

