

Clinical Proteomics

Services provided

For your **Clinical investigations**, we propose to apply **3D culture cell methods** to further your knowledge of disease, pathways, targets and drugs effects.

3D Cell Omics offers

- Technology that mimics the tumor microenvironment
- Study of drug effects on different cell line,
- Drug following by mass spectrometry imaging,
- Biomarkers hunting,
- Large scale proteins identification and relative quantification.

3D Cell Omics will assist you throughout all steps of your project from culture of your cell lines to the data analysis.

- Maintenance of cell lines
- Access to innovative technologies : creation of mixed spheroid, invasion computation software, 3D organs Bioprinting, exosome isolation and count ...
- Data processing and statistical analysis for identifications and relative quantification of markers

Expertise and Competences

- Large index of cell lines (30 different cell line from different species)
- **Mixed** spheroid creation : association of cancer cells AND immune cells in 3D culture for mimic tissue microenvironnement
- Large scale of different test : invasion test, viability test, MS/MS, imaging, fluorescence
- **3D organs bioprinting**
- **Exosome isolation and count with Nanosight**
- Isolated organs, biopsies, tissue sections, isolated cells layer, 2D or 3D cell culture, cell secretomes and body fluids (plasma, CSF)
- Combined Multi-Omics analysis (metabolomics, lipidomics and proteomics)
- Design, execution and analysis of experiments

Avantages

- Access to last generation instruments (Nanosight and 3D bioprinter)
- Get closer to the tumor microenvironment for testing drugs
- Up-to-date software for data analysis, proteins identification, label free quantification and invasion area quantification
- Members of 3D Cell Omics platform lead research efforts in proteomics area to apply these cutting-edge methods to answer your question

Keywords

- Mixed spheroid
- Immune cells
- Drugs effects test
- 3D Bioprinting
- Exosome isolation
- Multi-Omics analysis
- Mass Spectrometry Based Analysis

Customers type

- Academics
- Companies

Terms and conditions

- Service Contract
- Research Contract

References

Centre Oscar Lambret, CHRU de Lille, OCR, OncoLille, Pierre Fabre, Institut Pasteur Paris

Publications

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MCP. 2015, doi: 10.1074/mcp.M115.052480

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