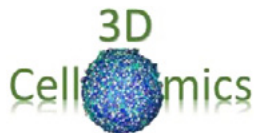


# Clinical Proteomics



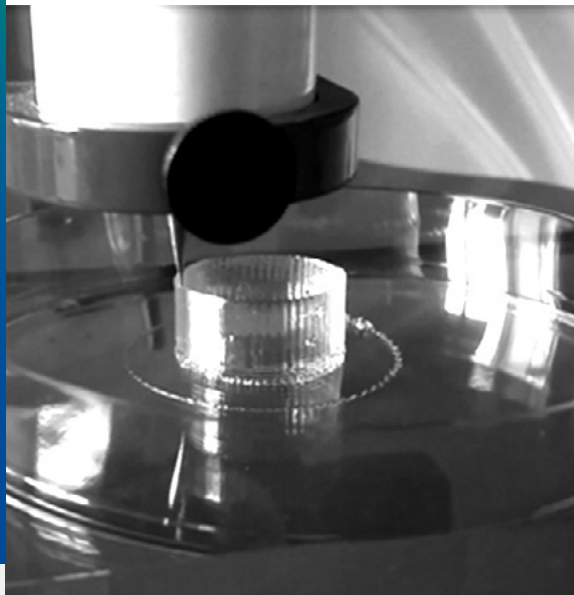
For your **clinical investigations**, we propose to apply **3D culture cell methods** to further your knowledge of disease, pathways, targets and drugs effects.

## 3D Cell Omics offers

- ✓ **Technology that mimics** the tumor microenvironment.
- ✓ **Organoids** with immune cells.
- ✓ **Study of drug effects** on different cell line.
- ✓ **Drug following** by mass spectrometry imaging.
- ✓ **Biomarkers** hunting.
- ✓ **Exosomes** isolation, quantification, characterization (proteomic, miRNA).
- ✓ **Real time AMDE/DMPK studies** by SpiderMass technology.

**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.



## Customers type

Academics • Companies



## Modality

Service contract • Research contract



## References

Centre Oscar Lambret • CHRU de Lille  
• OCR • Institut Pasteur Paris

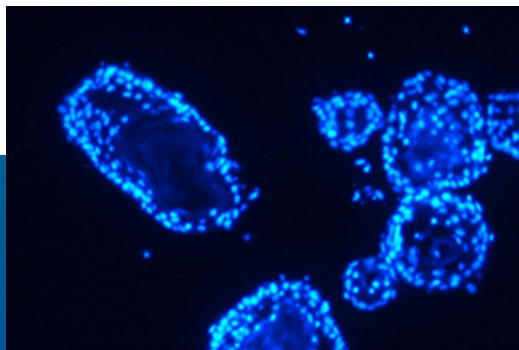
**Keywords :** Mixed spheroid; Immune cells; Drugs effects test; 3D Bioprinting; Exosome isolation; Mixed organoids; Mass spectrometry MSI for DMPK.

# Expertise & Competences

- ✓ **Large index of cell lines** (30 different cell line from different species).
- ✓ **Mixed spheroid / Tumor organoids creation:** association of cancer cells & immune cells in 3D culture for mimic tissue microenvironment.
- ✓ **Large scale of different test:** invasion test, viability test, MS/MS, imaging, fluorescence.
- ✓ **3D cells 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.

## Contact

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## Avantages

- Access to last generation instruments (Nanosight and 3D bioprinter).
- Get closer to the tumor micro-environment 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.**

## Publications

- **Journal of Extracellular Vesicles**, 2019.  
doi: 10.1080/20013078.2019.1603048
- **ChemPhysChem.**, 2018.  
doi: 10.1002/cphc.201701198
- **Molecular & Cellular Proteomics**, 2018.  
doi: 10.1074/mcp.RA117.000443
- **Scientific Reports**, 2016.  
doi: 10.1038/srep19360



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