

## Keywords

- Mixed spheroid
- Immune cells
- Drugs effects test
- 3D Bioprinting
- Exosome isolation
- Mixed Organoids
- Mass Spectrometry MSI for DMPK DMPK

## Customers type

- Academics
- Companies

## Terms and conditions

- Service Contract
- Research Contract

## References

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

## Publications

ZJEV 1603048, 2019

ChemPhysChem. 2018, doi:  
10.1002/cphc.201701198

MCP. 2018, doi:  
10.1074/mcp.RA117.000443

Sci Rep. 2016, doi:  
10.1038/srep19360

## 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
- 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

## Expertise and 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 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

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