The Cell and Tissue Imaging Platform (PICT) provides services, training and technological innovation in cellular imaging to academic and private scientific communities, in life science and health.

The platform is labelled “Infrastructure in Biology, Health and Agronomy” (IBiSA) and is a member of the France-BioImaging & Euro-Bioimaging infrastructures.

Our expertise covers multi-scale imaging from the molecule to the organism in the field of cancer research. The imaging center is composed of 3 poles: photonic microscopy, electron microscopy & CryoEM and high-content screening (HCS, Biophenics).

Mission

- Provide state-of-the-art technologies and expertise in photonic, electron & CryoEM microscopy, HCS (Biophenics) and image analysis,
- Provide training, assistance and advice to users,
- Carry out technical, methodological and software developments,
- Collaborate on science and technology projects,
- Participate in the dissemination of knowledge (training courses, congresses, open lab, etc.) at national and international level.

The platform is open to all researchers, both internal and external to the Institut Curie.

Newsletter
News

Two recent publications:
Two HIRA-dependent pathways mediate H3.3 de novo deposition and recycling during transcription
Nature Structural & molecular biology : https://doi.org/10.1038/s41594-020-0492-7

Human ESCRT-III polymers assemble on positively curved membranes and induce helical membrane tube formation
Nature Communications : 11 : 2663 : DOI : 10.1038/s41467-020-16368-5

A little about the facility history...

PICT-IBiSA at Institut Curie won official recognition as an operational platform in life sciences (“Cell Imaging” Platforms coordination RIO) in 2003. This recognition has been renewed by the labeling of the PICT by the GIS IBiSA (Infrastructure in biology, health and agronomy – https://www.ibisa.net/) in 2008. PICT-IBiSA is a member of the consortium France BioImaging (https://france-bioimaging.org/) since 2011.

Since 2007, in close collaboration with Nikon France, Nikon BV and other industrial partners, PICT-IBiSA also hosts and administers the Nikon Imaging Centre @ Institut Curie-CNRS (http://nimce.curie.fr/), one of three centers of this kind in Europe, one of the nine, worldwide.

Key publications

Year of publication 2020

Human ESCRT-III polymers assemble on positively curved membranes and induce helical membrane tube formation
Nature Communications : 11 : 2663 : DOI : 10.1038/s41467-020-16368-5

SPEN integrates transcriptional and epigenetic control of X-inactivation.
Year of publication 2019

Gaelle Boncompain, Nelly Gareil, Sarah Tessier, Aurianne Lescure, Thouis R Jones, Oliver Kepp, Guido Kroemer, Elaine Del Nery, Franck Perez (2019 Nov 5)
**BML-265 and Tyrphostin AG1478 Disperse the Golgi Apparatus and Abolish Protein Transport in Human Cells.**

**Targeting CCR5 trafficking to inhibit HIV-1 infection.**
*Science advances* : eaax0821 : [DOI : 10.1126/sciadv.aax0821](https://doi.org/10.1126/sciadv.aax0821)

Denis Krndija, Fatima El Marjou, Boris Guirao, Sophie Richon, Olivier Leroy, Yohanns Bellaiche, Edouard Hannezo, Danijela Matic Vignjevic. (2019 Aug 16)
**Active cell migration is critical for steady-state epithelial turnover in the gut.**
*Science* : 365(6454) : 705-710 : [DOI : 10.1126/science.aau3429](https://doi.org/10.1126/science.aau3429)

Anna Guadall, Sylvie Cochet, Olivier Renaud, Yves Colin, Caroline Le Van Kim, Alexandre G de Brevern, Wassim El Nemer (2019 Aug 16)
**Dimerization and phosphorylation of Lutheran/basal cell adhesion molecule are critical for its function in cell migration on laminin.**
*The Journal of biological chemistry* : 14911-14921 : [DOI : 10.1074/jbc.RA119.007521](https://doi.org/10.1074/jbc.RA119.007521)