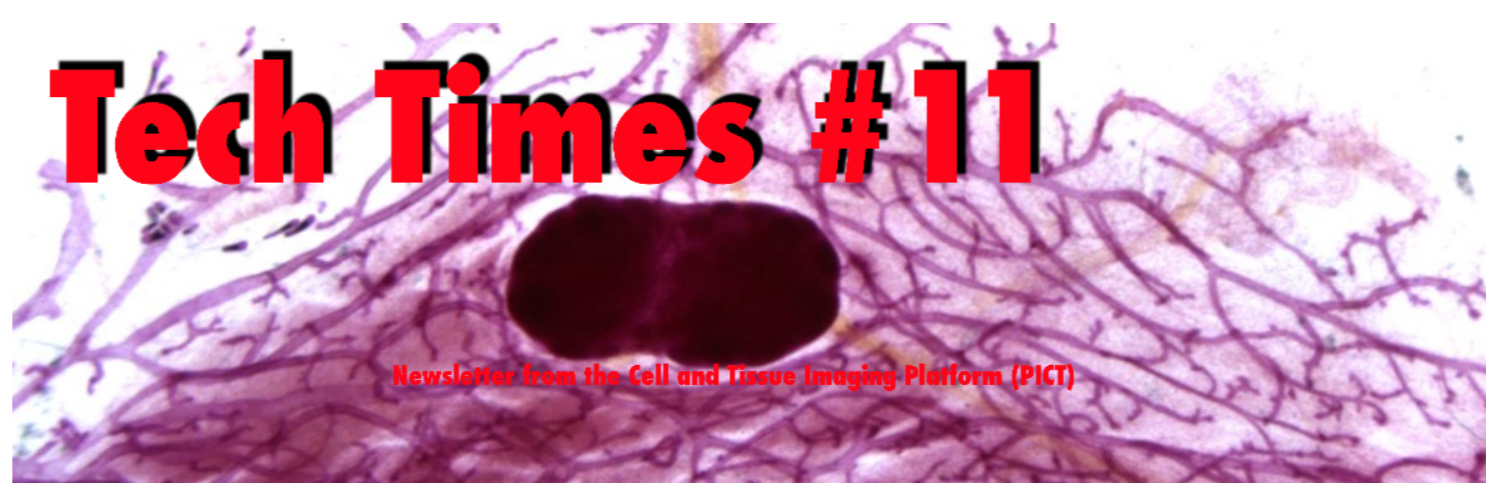


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**Tech Times** is your **newsletter** that regularly informs you about the latest updates on the **PICT** facility.

The **Cell and Tissue Imaging Platform (PICT)** welcomes you for your **microscopy** projects.

PICT is **IBISA** certified and is a member of the **FranceBioImaging** infrastructure.

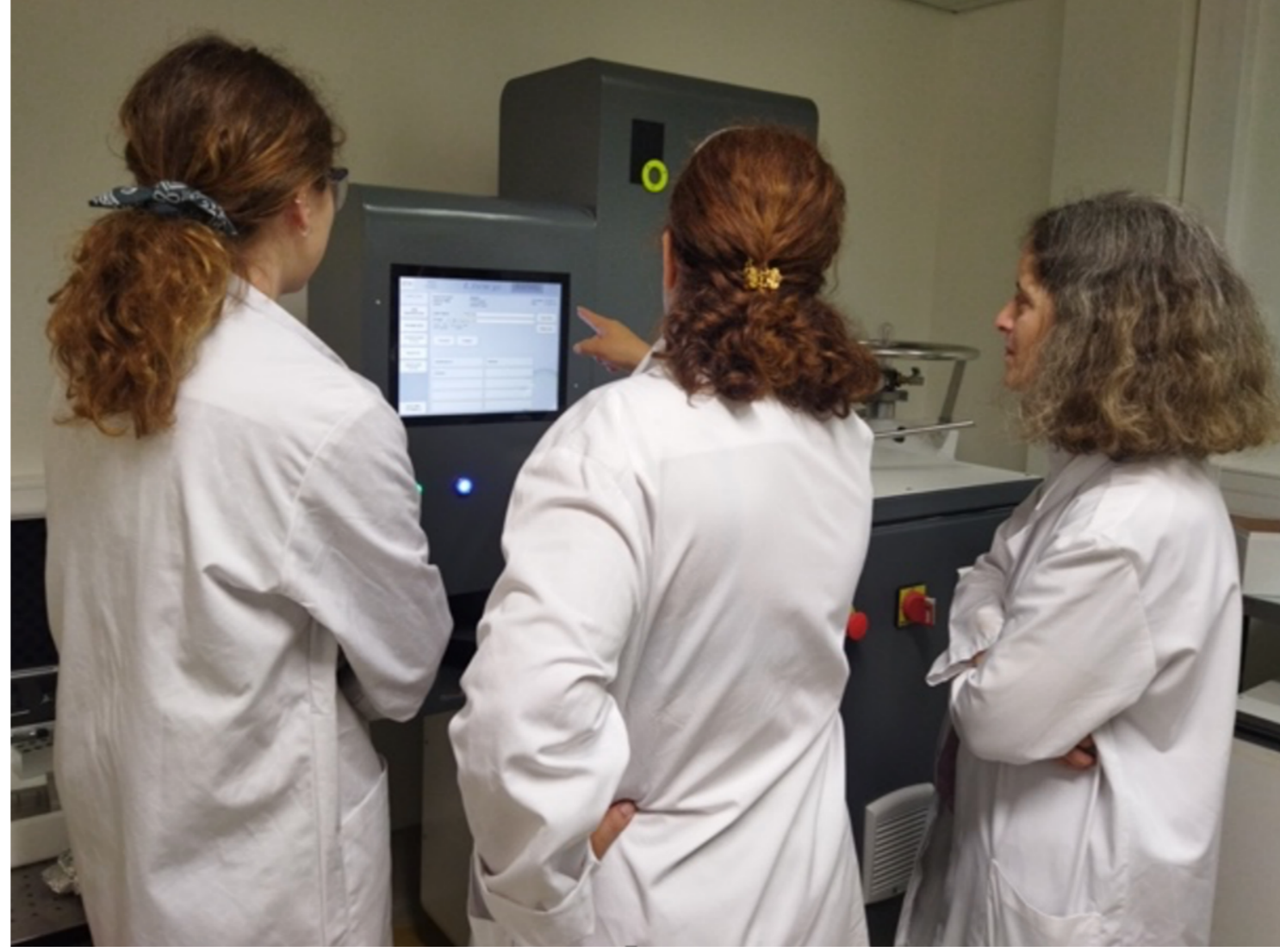
In short, the PICT platform brings together expertise in:

- Electron Microscopy
- Light-Microscopy
- High-content screening
- Image Analysis

More than **40** high-end microscopes and **18** experts in microscopy and image analysis are available.

**New equipment / Electron microscopy facility**

The new High Pressure Freezer equipment (HPF, from CryoCapCell) co financed by SESAME Ile de France and Institut Curie, have been installed in the EM facility (location: 6<sup>th</sup> floor of Constant Burg building). This equipment allows the preparation of samples (cells, tissues, small organisms) with an optimized ultrastructure thanks to the quick immobilization (cryo fixation under pressure) for EM observations. Combined to a light microscope, it will be an asset to develop workflows for Correlative Light and Electron Microscopy (CLEM). For more information about the technique: *HPF Live μ* for a full CLEM workflow, *Helligenstein et al.* <https://doi.org/10.1101/2020.09.03.281956>



**Nanolive DEMO 18<sup>th</sup> May - 17<sup>th</sup> June at Curie Institute**

Discover Nanolive's capabilities: 3D visualization, 3D reconstruction, 3D quantification, 3D segmentation, 3D analysis, 3D visualization, 3D reconstruction, 3D quantification, 3D segmentation, 3D analysis.

Free the device with your own samples. To participate in a demo with your samples or to request info send an email to: [nanolive@institutcurie.fr](mailto:nanolive@institutcurie.fr)

A class of first year primary school students from the Varlin school, Paris 10e, came on May 30 for a visit of the Genetics and Developmental Biology unit. The pupils participated in **Workshops** on biology and light microscopy on the PICT@BDD facility.

If you missed the very interesting talk from Daniel Levy, Aurelie Bertin and Cyan Ching (Molecular Microscopy of Membranes team, UMR168 Institut Curie) on April 21, 2022 you can watch the talk streaming [HERE](#). The talk gave a comprehensive (and understandable) introduction to cryo-EM technology and the different techniques that are available (and being developed by their team) for automated cryo-EM image analysis.

For their 15th anniversary, Institut Curie, CNRS and Nikon have renewed their partnership for the next 3 years around the photonic imaging platform: Nikon Imaging Center@Institut Curie-CNRS. Website: <https://nimce.institut-curie.org/>. Click [HERE](#) to visit our virtual image gallery.

**Image deconvolution** - The deconvolution software *Blender* is available via an online portal (Curie authentication) for researchers of the Institute. Please contact your PICT and MIC platform referents to be trained.

The next training to automated Image analysis & processing with Image J macro language (in English) organized by PICT in collaboration with the Institut Curie training unit will take place on Autumn 2022. Registration is not yet open (an email will be sent to vtlm for registration).

**If you have a need for image analysis, do not hesitate to contact the platforms that will advise you.**

**EURO-BIOIMAGING** **FRANCE-BIOIMAGING**

France BioImaging is granting each FBI node with a specific budget to cover the external user access related costs up to 750€ per week of project.

The user must then register on the eurobioimaging portal: <https://www.eurobioimaging.eu/service> and submit a short project and request to use the PICT platform. Contact the platform manager for the detailed procedure.

**Which light-microscopes are available on the platform?**

It is easy, just go to our [website](#).

**TIPS 'n' TRICKS**

All images for publications should include a scale bar. A standard size should be used for the scale bars on all images if possible to help avoid confusion. Here is way to do it with Fiji : <https://imagej.net/imagj/annotating-images>

You have just published an article with microscopy data.... **Congratulations!** Don't forget to thank the PICT-IBISA platform member of FranceBioImaging : *"We acknowledge the Cell and Tissue Imaging France (PICT-IBISA), member of the national infrastructure France-BioImaging supported by the French National Research Agency (ANR-10-INBS-04)"*

**NIKON IMAGING CENTER** @ **institutCurie CNRS**

The Institut Curie is hosting the **Nikon Imaging Centre** since 2007. More information [here](#).

A big thank you to all the researchers, units, labex and institute that funds and/or helps us to finance the platform's equipment.

*"We believe in sharing equipment!"*