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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.

**IMAGE CONTEST**

For the first year, under the impulse of the PICT, the Institut Curie is organizing in October a **competition for the most beautiful scientific image**. This competition, open to all, will crown the 12 most beautiful images for the edition of a 2023 calendar. **Don't forget to participate and vote to elect your 3 most beautiful images!!**

Submit a picture:  
<http://intranet.curie.fr/actualite/detail.php?id=3279>

**TRAINING:** The PICT platform organizes jointly with the Collège-de-France and INSERM a microscopy training (in French): "Microscopies de fluorescence : plein-champs, confocale, spinning, super résolution". It will take place from **November 28 to December 2, 2022**. Online registration on the website : <https://www.sirene.inserm.fr>

**Published in September in the Journal of Cell Biology**, the teams of Graça Raposo and Daniel Lévy drew on PICT's expertise in **cellular TEM, cryo-EM on membrane systems and light microscopy on living cells** to explore how phospholipids and protein complexes shape membrane tubules.

J Cell Biol 7 November 2022; 221 (11): e202110132.  
 doi: <https://doi.org/10.1083/jcb.202110132>

Scale bars: Fluorescence (main: 10 μm; inset : 2.5 μm), Cryo-EM (50 nm).

**NEW EQUIPMENT:** A Sensocell optical tweezers microscope (Impetux) has just been installed on the platform (PIC@BDD). It is currently being tested and will soon be available on specific projects. More information on the technology: <https://www.impetux.com/optical-tweezers-platform-sensocell/>

**Image deconvolution** - The deconvolution software **DeconvolutionLab3** is available via an online portal (Curie authentication) for researchers of the Insitute. Please contact your PICT and MIC platform referents to be trained.

**TRAINING:** 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 **26-27 January 2023**. Registration is not yet open (an email will be sent to vtlm for registration).

**DEMO:** STED 3D Abberior demonstration (<https://abberior.rocks/superresolution-confocal-systems/facims>) at Collège-de-France from October 17 to 21. If you want to test the system, please contact Mathieu Maurin and Aurélien Dauphin.

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

The commentary "[Acknowledging and citing core facilities](https://www.embopress.org/doi/full/10.15252/embr.20225734)" was published in the Science & Society section of EMBO reports. This is the result of discussion in the EU-LIFE Core Facilities Working Group and the effort of its members. It highlights the importance of recognizing the diversity of contributions to research and the key role of small scale research infrastructures in the production of scientific knowledge.

<https://www.embopress.org/doi/full/10.15252/embr.20225734>

**EURO-BIOIMAGING** and **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.**

In order to benefit from this support, the user must be external to the following institutions: Aix-Marseille University, University of Montpellier, University of Bordeaux, University of Nantes, University of Rennes 1, University of Paris-Saclay, University of Paris, PSL University, Genethon, Ecole Polytechnique, Institut Pasteur.

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**

**Power down**

Unless you are using very dim fluorophores, you most likely will not need the full power of your fluorescence light source. Most LED based light sources allow you to adjust the light intensity. Start with the lowest intensity and gradually increase it until you can just see the structure you want to image (it doesn't have to be that bright - remember that your microscopy camera will pick up a lot more light than your eyes do). On confocal or other laser-based systems a laser power of just a few percent is often sufficient for a well-labeled sample.

**SURVEY:** Thank you all for participating in the PICT-light microscopy satisfaction survey. The results of the survey are available by clicking on this link: <https://curie.fr/sites/default/files/medias/documents/2022-09/Satisfaction%20Survey%202022.pdf>

Your feedback is useful for us to improve the platform. You can also send your comments to the PICT user committee. The list of members is: <https://institut-curie.org/popin/governance>

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 Platform (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".

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