CELL IMAGING PLATFORM (PIC)

Expertise

- Advice for imaging project
- Assistance for 2D-3D-4D image acquisition
- Assistance for image analysis and quantification
- Theoretical and practical training in imaging
- Image analysis training

Applications

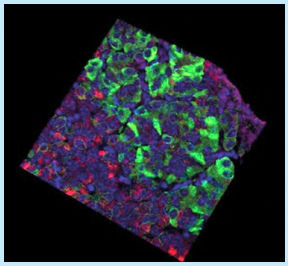
- Fluorescence imaging on fixed cells and tissues
- Fluorescence on live samples (cell, tissue slide, zebra fish...)
- High content screening (HCS) high content analysis (HCA)
- Mono/multiphoton imaging
- Spectral confocal imaging
- Light-sheet confocal imaging
- FRAP, FRET, FLIP...
- Metabolic imaging

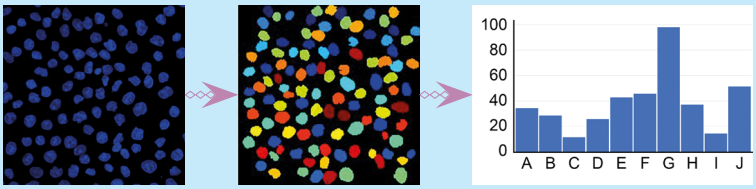
Instrumentation

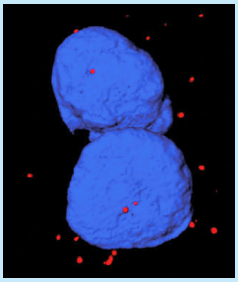
- Conventional and inverted wide-field fluorescence microscopes
- Inverted mono/multiphoton spectral confocal microscope
- High content screening automated system (fixed and live samples)
- High content analysis storage and server system
- Light-sheet microscope
- Super-resolution microscope

The **Cell Imaging Platform**, a specialized imaging platform, which hosts cutting-edge equipment, is available to all academic researchers within and outside the CRCL, as well as to private companies. It aims at **supporting all research projects in the field of oncology**, at training regular microscopy users.

Our mission is to assist researchers throughout their project: before (project design), during (assistance with acquisition and image processing) and after (data interpretation and prospects).

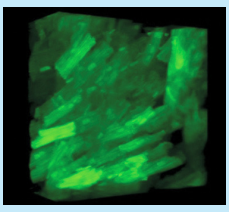






The staff responsible for the platform is highly experienced in all areas of cell and tissue fluorescence imaging from cultured cells and tissue sections (standard or thick-sections), and from fixed to live samples. The platform is in close interaction with the cytometry and the anatomical pathology platforms of the CRCL.

The platform has strong collaborations with national and local platforms, thus providing expertise and complementary equipment for your projects. Furthermore, the platform works with physics and chemistry research laboratories to propose specific developments/approaches.



Access details

- The user prepares his/her samples
- Basic science projects
- Translational projects
- Animal samples
- Human samples

D.I.Y.?

Free access to platform equipment after training and registration through the online schedule.

Mention us in your publications!

To allow our platform to pursue its objectives, we need you to mention our work in your publications as follows:
We thank C. Vanbelle and F. Catez, Plateau d'imagerie du Centre de Recherche en Cancérologie de Lyon, Lyon, France, for technical help with imaging

In partnership with

PLATIM

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Fédération de Recherche
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LYON BIO-IMAGE

CIQLE
Centre d'Imagerie Quantitative Lyon Est

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Project workflow

- *Initial consultation (phone, e-mail Christophe Vanbelle)*
- *Experimental project request* / *Training project request*
- *Advice for sample preparation* / *Study of the training aims*
- *User prepares his/her samples* / *Expertise of the in-house equipment*
- *User is trained/assisted on the equipment* / *Validation of the training program*
- *Advice for image analysis* / *Training on site or at the CRCL*

Frédéric Catez (PhD)
– Scientific manager

Frédéric is a CNRS researcher in cell biology. He is an expert in nuclear biology and architecture. His current research covers ribosome biogenesis and ribosome functions in protein synthesis. Frédéric has worked for over 10 years in fluorescence imaging on fixed and live cells.

Christophe Vanbelle (PhD)
– Platform manager

Christophe is a research engineer in biophysics and biochemistry. Over the last 10 years he gained expertise in photonic imaging of cells, tissues and image analysis/quantification. His academic and practical background in biology allows him to analyze the needs of researchers and to advise them. Feel free to contact him.

Submission form and more infos:
www.cancer-research-lyon.com