

ALSACE NODE SITES

Plateforme d'Imagerie du CRBS-STRAasbourg | PIC-STRA

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PIC-STRA aims to support academic and private research teams in their projects by providing users with a range of imaging systems (stereomicroscopes, wide-field, slide and box scanners, 1 & 2P confocal, super-résolution-AiryScan, spinning-disk) for multi-scale observation, from whole small animals to subcellular details. It provides various solutions for the observation of fixed and living samples (videomicroscopy) and is equipped for image processing and analysis (IMARIS, Fiji/ImageJ, ICY, iLastik). In the near future, PIC-STRA will also acquire a transmission electron microscope to provide users with this imaging modality in routine in addition to the correlative microscopy (CLEM).

Plateforme Imagerie *in vitro* | PIV

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The objectives of the platform are to support the research activities of ITI Neurostra teams by providing electron microscopic and photonic systems. The personnel have recognized expertise in confocal microscopy and in transmission and scanning electron microscopy, as well as in the various sample preparation techniques (chemo-fixation, cryo-fixation and cryo-substitution) and molecular detection (immuno-cytochemistry: immuno-fluorescence, immuno-peroxidase, immuno-gold) applied to biological tissues, primary cell and organotypic tissue cultures and cell membrane sheets. Recent developments include nanoscopy (STED), fluorescence-lifetime imaging microscopy with the module FALCON (FAst Lifetime CONTRast), expansion microscopy, transpolarisation, ultrafast cryofixation and correlative microscopy.

QuEst (Quantum Efficiency Strasbourg)

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The QuEst imaging facility combines the microscopy resources of the Institut de Génétique et Biologie Moléculaire (IGBMC) and the Laboratoire de Bioimagerie et Pathologies (PIQ). The two laboratories are located on the Illkirch bio-campus, just 10 minutes' walk from each other. QuEst offers a range of instruments for multi-scale imaging, from the molecule to the whole animal. The ICI (Imaging Center IGBMC) component located at the IGBMC specialises in imaging the dynamic processes of living organisms at the molecular, cellular and whole organism levels. Researchers can analyse, in an integrated manner, their study models at different resolutions, ranging from the finest cellular structures to the complex functioning of organs *in vivo*. The PIQ (Plateforme d'Imagerie Quantitative - Quantitative Imaging Platform), located in the Faculty of Pharmacy, has a specific focus on quantitative molecular microscopy methods. In addition to commercial instruments, the PIQ-QuEst develops its own state-of-the-art instruments.