

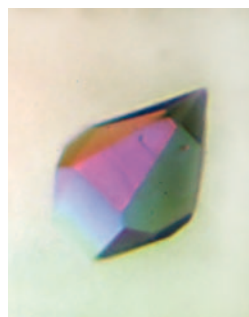
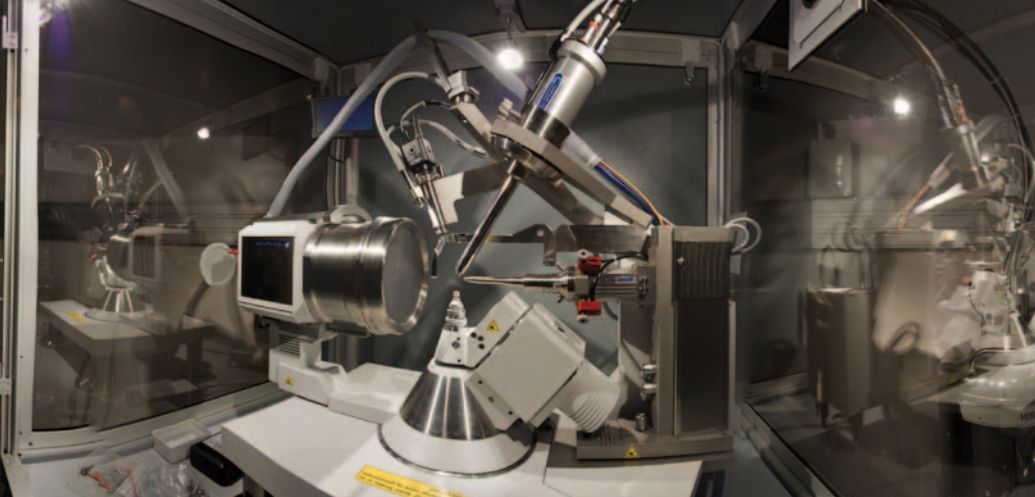
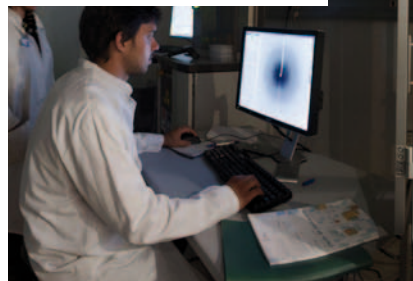
Integrated Screening Platform of Toulouse - PICT

PICT (Plateforme Intégrée de Criblage de Toulouse) is a multidisciplinary platform whose main objectives are the identification, the rational design, the synthesis, and the optimization of ligands that will target macromolecules of biological interest. PICT is based on three complementary fields of expertise:

- (i) the identification of ligands through high throughput screening,
- (ii) the development of chemical libraries,
- (iii) the 3D structure determination of the selected targets and ligand screening using biophysical approaches, NMR and X-ray crystallography, including the characterization of target-ligand interactions.

PARTNERS AND ORGANIZATION

PICT combines the know-how and the expertise of four facilities, located in Toulouse: the Institut de Pharmacologie et de Biologie Structurale which is the coordinator site (Biophysics, structural biology, and bioinformatics), the Laboratoire de Pharmacologie de la Régulation Epigénétique du Cancer (HTS), the Institut des Technologies Avancées en Sciences du Vivant and the Laboratoire de Synthèse et Physicochimie de Molécules d'Intérêt Biologique (automated parallel synthesis).



EQUIPMENT

PICT includes important human resources and a wide variety of equipment:

- HTS stations and infrastructure for assay miniaturization,
- Automated parallel synthesis systems associated with preparative HPLC and mass spectrometry,
- NMR spectrometers (500 MHz, 600 MHz cryoprobe and 700 MHz), crystallization and visualization robots, X-ray diffractometers, isothermal titration calorimeter, station for protein thermostability screening by fluorescence, batch and flow mode light scattering technologies, PC clusters and dedicated software for molecular modelling and virtual screening.

SERVICE

PICT is resolutely open to academic and government agencies and to companies at both the local and national levels. Different kinds of services can be proposed ranging from access to specialized equipment to a complete service delivery, collaborative contracts, and industrial partnerships.

