



OBJECTIVE

The aim of the IR-NMR THC network is to make available (for free) to the national and international scientific community (online submission and evaluation of proposals) **30% of its time on nuclear magnetic resonance spectrometers at very high fields**. Research teams of the network are at the forefront of technical know-how and methodologies by covering a wide range of applications in biology, chemistry, physics, materials science, medicine and geology.

ACCESS

- 1 Experiment proposals are submitted anytime online at : <http://www.ir-rmn.fr>
- 2 Proposals are evaluated within 10 days by a team of independent experts in the field.
- 3 Following approval, experiments are carried out as soon as possible (1-2 months) in cooperation with the host site (travel expenses and accommodation for 2 academic researchers are covered).



800 MHz spectrometer located at IECB, since December 2009

BORDEAUX NMR FACILITY, CBMN-IECB

800 MHz (NMR of Solids/liquids/soft matter) spectrometer equipped with:

- **Cryoprobe TCI $^1\text{H}/^{13}\text{C}/^{15}\text{N}$ (liquid state, high sensitivity)**
 - High resolution structure of peptides, proteins, nucleic acids, foldamers and polymers in solution
 - Studies of protein/ligand and foldamer/ligand interactions
- **CP-MAS $^1\text{H}/^{13}\text{C}/^{15}\text{N}$ 3.2mm and BB $^1\text{H}/\text{X}$ 4mm probes (solid state)**
 - Structure and Dynamics
 - of biological membranes models (liposomes or bicelles), of natural systems (virus, bacteria, human cells) and of soft matter (liquid crystals, colloids, gels)
 - of insoluble and non-crystalline supra-molecular structures made of self-assembled proteins such as amyloid fibrils or secretion systems
 - Analysis of solid or semi-solids samples (oil, wood, products from vine and wine, etc.).



CONTACTS

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<http://www.ir-rmn.fr/en/presentation/cbmn-iecb-bordeaux>