



CNRS Formation Entreprises

## **Applications of Amphipols to Membrane protein studies. Practicals. 2010-XIII-03**

Scientific and technical environment of the workshop:

**Laboratoire de Biologie Physico-Chimique des Protéines Membranaires  
CNRS UMR 7099**

See more on <http://www.ibpc.fr/UMR7099/popot.html>

### **Objectives:**

To train industrial and academic scientists in the use of amphipols for such applications as membrane protein stabilization, synthesis, folding and immobilization, drug screening, diagnostics, and structural studies.

### **Audience:**

Students and industrial or academic scientists interested in working with amphipols.  
Experience in working with membrane proteins *in vitro* is preferable.

**Workshop language: English**

### **Program:**

Experiments will be carried out on one of the membrane proteins currently in use in the laboratory (bacteriorhodopsin) and, optionally, on proteins or plasmids brought by the students. Practicals will include:

- Membrane protein trapping with amphipols
- Characterization of membrane protein/amphipol complexes
- Amphipol-assisted membrane protein folding
- Use of amphipols for cell-free synthesis of membrane proteins
- Membrane protein immobilization onto solid supports using functionalized amphipols
- Application to detecting circulating antibodies and drug screening

**Following the theoretical part (workshop 2010-XIII-02, March 8-9) is a prerequisite.**

**Venue:** PARIS (France)

**Organization:** Maximum of 12 people.

Language: English.

3½ days (beginning on Tuesday 2 pm)

**Cost:** € 875

**Dates:** March 9-12, 2010

Inscription sheet to be sent to: **CNRS Formation Entreprises**

Bat. 31, avenue de la Terrasse, F-91198 GIF SUR YVETTE Cedex - FRANCE

Phone : 01 69 82 44 55 – Fax : 01 69 82 44 89

Internet : <http://cnrsformation.cnrs-gif.fr>