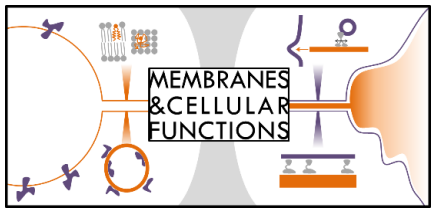

Postdoctoral position :

"In vitro Reconstitution of Cellular Protrusions"

Membranes and Cellular Functions team (P. Bassereau)

Physics of Cells and Cancer Lab., Institut Curie, Paris, France

A post-doc position is currently open in our group. We are looking for an independent, highly motivated experimentalist biophysicist to **work on a cell mechanics project using reconstituted systems**, in the CNRS laboratory "Physics of Cells and Cancer" (UMR 168 CNRS) at the Institut Curie in P. Bassereau's team.

Research Project: The objective is to **reconstitute, with bottom-up approaches, cellular protrusions at a membrane surface, induced by the underlying local topography**. The project will involve developing in vitro systems based on model membranes, purified proteins and cytoskeleton proteins, and microfabricated substrates. The experiments will be based on confocal microscopy combined with micromanipulation and force measurements with optical tweezers. More generally, this project is **part of the European consortium "Pushing Cell" funded with an ERC Synergy grant** that brings together 2 teams of physicists (theoreticians and experimentalists in Paris) and 2 teams of cell biologists (at ISTA, Austria and at University of Utrecht, Netherlands); it aims at determining the biological and physical processes enabling cells to move in a biological matrix in the absence of adhesion but using the topography of the medium.

Position: The position is funded for an initial period of 2 years, with the possibility of extension. Starting time: as soon as possible.

Location: Our team is part of the interdisciplinary lab, Physics of Cells and Cancer, at the Institut Curie, a highly stimulating and dynamic research institute located in Paris city center.

We are looking for: highly motivated candidates **with backgrounds in biophysics, biochemistry and in vitro reconstitution**, in particular **with cytoskeleton filaments**, who are interested in interdisciplinary research. Good communication skills in English is mandatory. There is no nationality restriction.

How to apply: Send the following documents to Dr. Patricia Bassereau (patricia.bassereau@curie.fr):

i) a cover letter stating your research experience, your skills that would benefit the project and your motivation for joining our team, ii) a CV, including at least two reference contact details.