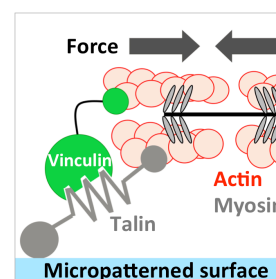


PhD position in Biochemistry at I2BC (Paris area, France):

Study of mechanosensitive protein complexes associated to the actomyosin cytoskeleton

The **Institute for Integrative Biology of the Cell (I2BC)** is a new vibrant environment for research in all disciplines of life sciences located in the south **Paris** area (Gif-sur-Yvette).

The **PhD candidate will study the force-dependent binding of proteins to their ligands**. More specifically, he/she will study the effect of actomyosin force on the interaction between actin-binding proteins (talin, filamin) and integrins that mediate adhesion in many cell functions (migration, phagocytosis...). To this aim, he/she will adapt the microscopy assay that we developed to reconstitute the actomyosin-dependent talin-vinculin mechanosensitive complex with pure proteins on geometrically-defined micropatterned surfaces (Ciobanasu et al, 2014 **Nature Communications**; Ciobanasu et al, 2015 **Nature Protocols**).



Basic principle of the assay to study the actomyosin-dependent talin-vinculin complex

The **project is funded by ANR for 3 years** (National Agency for Research) and **involves a collaboration** with the group of Florence Niedergang at Cochin Institute in Paris to study the role of mechanosensitive protein complexes in phagocytosis using cell biology approaches.

More information on I2BC, our team and our research can be found at :

<http://www.i2bc.paris-saclay.fr/spip.php?article958&lang=en> and <http://www.i2bc.paris-saclay.fr/spip.php?article975>

The candidate holds a **Master of Science degree** in Life Sciences (or interface Physics / Biology or Chemistry / Biology). Candidates with an **interdisciplinary profile** are very welcome. Experience in microscopy is a plus. Experience in protein purification is a plus.

Terms of Appointment: This position is funded for **3 years, starting in january 2017** or later. The position will remain open until it is filled. The salary will follow the CNRS guidelines. The candidate will obtain a **PhD in Biochemistry from the University Paris-Sud** under the supervision of Dr Christophe Le Clainche at I2BC.

To apply, please submit a cover letter, a detailed CV and contact information for two references by e-mail to :

Dr Christophe Le Clainche

Institute for Integrative Biology of the Cell (I2BC), Gif-sur-Yvette, FRANCE

e-mail : Christophe.LECLAINCHE@i2bc.paris-saclay.fr