

PhD position in cell biology

A fully-funded PhD position is available in the group of Dr. Damien Coudreuse at the Institute of Genetics and Development of Rennes (IGDR), France. Our team investigates the mechanisms that regulate the eukaryotic cell cycle and the evolution of cell proliferation, using fission yeast as a model system. Our studies take advantage of multidisciplinary approaches including synthetic biology, high-resolution live-cell imaging, microfluidics, and experimental evolution (for more information, see www.synthecell.org). The proposed project aims at understanding the interplay between the physical characteristics of the cells and their adaptation to the environment. In particular, we will take a novel strategy to evaluate cell volume as both a target and a driver of evolutionary processes, using experimental approaches in continuous culture systems as well as natural yeast isolates. This project will shed light on a new area of cellular adaptation.

We are seeking a highly motivated candidate to take on this exciting project in a collegial, interactive and international environment. Candidates with a background in yeast genetics as well as molecular and cell biology are encouraged to apply. Experience with microscopy and image analysis will be useful for this project. A very good level of spoken and written English is required.

Research at the Institute of Genetics and Development of Rennes (<http://igdr.univ-rennes1.fr/english/>) covers a wide range of subjects in cell biology, taking advantage of most classical model systems while strongly promoting interdisciplinary approaches. The IGDR is dynamic and expanding, with 21 teams representing 200 international researchers and staff, including several recently established groups. The working language of the laboratory and the institute is English. The IGDR is located in the city of Rennes, the capital of Brittany in northwestern France. With its rich tradition of cultural, musical, and artistic events as well as its close proximity to the coast, Rennes is a very welcoming and pleasant place to live. It is also easily and directly accessible from Paris (around 1h30 by train).

Candidates should contact Dr. Damien Coudreuse at damien.coudreuse@univ-rennes1.fr and send 1) a Curriculum Vitae, including past research experiences as well as 2) a letter detailing their motivation and interest in our work. Applicants should also request recommendation letters to be directly sent to Dr. Damien Coudreuse by at least two references.

This PhD fellowship is funded by the Agence Nationale de la Recherche (ANR) and the Région Bretagne.