

A PhD position is opened for the INPHINIT call (La Caixa) to work in the project entitled “Study the non-canonical role of separase during the cell cycle using budding yeast as model organism”

Area of Knowledge: Cell Cycle and Mitosis regulation.

Group of disciplines: Life Sciences, Cellular and Molecular Biology, Cell Biology.

Research Group description:

How eukaryotes -including humans- inherit their nuclear genome is a fundamental question in biology which has direct clinical implications, as chromosome missegregation is a leading cause of miscarriages and birth defects, and is tightly linked to malignant tumour progression. Most aneuploid tumour cells are generated as a result of failed cytokinesis, which leads to cells containing both sets of sister chromatids. Hence, the regulation of mitosis is of paramount importance in maintaining chromosome stability. By studying the mechanisms that ensure completion of anaphase before cytokinesis, we hope to gain crucial insight into processes that are important for healthy growth and proliferation of all eukaryotes, including human.

Our current research is focused on the mechanisms that ensure faithful chromosome maintenance during healthy cell growth—particularly, the molecular framework responsible for the initiation of mitotic exit. We plan to extend established, state-of-the-art experimental systems using a model organism such as *S. cerevisiae* to study the regulation of mitosis and chromosome segregation. To address these questions we will use proteomic and genomic screens, as well as biochemical and functional studies.

For more information of the group you can visit <http://idibell.cat/en/content/cell-cycle>

Job Description:

The laboratory of the Cell Cycle Group directed by Dr. Ethel Queralt of the Cancer Epigenetics and Biology Program (PEBC) of the Bellvitge Institute for Biomedical Research (IDIBELL) is recruiting outstanding candidates as part of INPHINIT-Doctoral fellowship Programme sponsored by the Fundació Bancària “La Caixa” (FBLC).

Requirements:

- Highly motivated and with scientific ambition fellows who wishes to acquire new and complementary skills.
- At the time of recruitment (start date of the contract with the Research Centre), candidates must be in the first four years (full-time equivalent research experience) of their research careers and not yet have been awarded a doctoral degree.
- Good knowledge of English (B2 or higher demonstrable).
- Cell Cycle knowledge would be desirable.
- **Important Mobility rule:** Candidates must not have resided or carried out their main activity (work, studies, etc.) in Spain for more than 12 months in the 3 years immediately prior to the recruitment date. Short stays such as holidays will not be taken into account.

academic records:

At the time of recruitment, candidates must comply with one of the following options:

- To have completed the studies that lead to an official Spanish (or from another country of the European Higher Education Area) university degree awarding 300 ECTS credits, of which at least 60 ECTS credits must correspond to master level.
- To have completed a degree in a non-Spanish university not adapted to the European Higher Education Area that gives access to doctoral studies. The verification of an equivalent level of studies to the ones mentioned above will be made by the university when the admission procedure starts.

we offer:

Our group has a strong background in Cell cycle studies and the PEBC/IDIBELL provides an excellent scientific environment for research studies. The successful candidate will take advantage of a broad spectrum of training in different state-of-the-art experimental techniques, from genomic to proteomic approaches in close supervision from the IP of the project. Although yeast-focused, the work will also have the potential to extend to functional studies in human cells.

application:

Please contact with Ethel Queralt (equeralt@idibell.cat) for more information.