

PhD Student (REF.: PHD_PM_105)

The Josep Carreras Leukaemia Research Institute (IJC) is a non-profit research institute based in Barcelona and dedicated to advancing our understanding about leukaemia and related disorders, in partnership with the University of Barcelona and University Autònoma of Barcelona. The IJC has laboratories in three clinical campuses: i) Clinic Hospital, ii) Sant Pau Hospital and iii) Germans Trias i Pujol Hospital. IJC serves as a collaborative hub for basic investigators and physicians to work together on fundamental biological and clinical aspects of leukaemia. The IJC offers an excellent work environment built around a multi-disciplinary fusion of ideas and state-of-the-art facilities.

Research Description

Menendez's Lab employs cutting-edge approaches such as primary patient samples, patient-derived xenotransplantation, multiOMICs, gene therapy, stem cell models and genome editing strategies to decipher molecular and cellular determinants underlying the etiology and pathogenesis of pediatric and adult acute leukemia, in close link with local, national and international physicians. We have now been funded a project from the German Josep Carreras Stiftung (DJCLS 15 R/2021) to study the mechanisms underlying chemoresistance and relapse in Acute Myeloid Leukemia. The project will be conducted under the supervision and long-standing expertise of a senior research associate and continuous interaction with many lab members mastering in all the cutting-edge technologies aforementioned.

Please also visit our unit webpage:

https://www.carrerasresearch.org/en/Stem_cells_mesenchymal_cancer_and_development

Framework of the 15 R / 2021 project financed by the Deutsche Josep Carreras Leukämie Stiftung - Acute Myeloid Leukemia initiating cells: contribution of hypoxia/HIF pathway to chemoresistance and relapse.

What we need

- A very high level of motivation and interest. Eager to learn quickly and strive in research.
- Master's degree in a relevant area of biomedicine.
- Ability to handle varying workloads, hard-worker and aptitude for teamwork.
- High level of collaborative and communicative skills.
- Good level of English speaking and writing skills (required).
- Previous experience in cellular and molecular biology.
- Knowledge on computational biology or animal handling is a plus.

What we offer

- A 3-4 years PhD position starting in February 2022.
- An exciting and innovative research project.
- Close supervision-training on a daily basis while promoting independent thinking and experimental design.
- Great opportunity for networking with basic, translational and clinical researchers.

- Working in an stimulating research environment of the Josep Carreras Leukaemia Research Institute (Campus Hospital Clinic, city centre) in the basic-clinic interface.
- Incorporation in a multinational and highly collaborative team.
- The stimulating environment of the Barcelona metropolitan area.

Main Responsibilities

- Experimental design in discussion with supervisors and other lab members.
- Conduct all cellular, molecular, and biochemical *in vitro* experiments.
- Conduct *in vivo* experiments with mice.
- Conduct data analysis and interpretation and prepare data for presentation in lab meetings, and for grant preparation and peer-reviewed publication.
- Liaise actively with in-house lab members and external collaborators.

How to apply

To apply for this opportunity, please send your resume and a cover letter (incl. the contact details of two referees) to jobs@carrerasresearch.org indicating in the subject of the message: **REF.: PHD_PM_105**.

Deadline for Applications

Please submit your application by December 10th, 2021.

Who we are?

Our mission is to carry out research into the basic, epidemiological, preventive, clinical and translational aspects of leukaemia and other hematologic malignancies.

The vision of the Josep Carreras Leukaemia Research Institute is that research will identify new therapeutic targets and enable us to develop more precise and less aggressive treatments. We aspire to understand the origin and development of leukaemia and other malignant haematological pathologies in order to be able to prevent them. We will work for a future in which all leukaemias will be curable.

For further information, please, visit our webpage: <http://www.carrerasresearch.org/en> and the Josep Carreras non-profit organization: <https://www.fcarreras.org/en>.



HR EXCELLENCE IN RESEARCH

The European Commission awarded the IJC the HR Excellence seal in July 2019. The IJC continues to work to maintain its policies in line with the Charter and Code principles.

The HRS4R has the main objective of ensuring that research centers of excellence implement and respect the requirements of the European Charter for Researchers and the Code of Conduct for hiring researchers (from here on referred to as the Charter and Code) within their human resources policies.

This EC initiative aims to promote training, professional development, and mobility for all European scientists. The IJC supports these values and principles, which will not only serve to strengthen its internal policies but will actively stimulate excellent research and firmly situate the organization as an institution with a stimulating working environment that favors the development of its scientists.

IJC is an equal opportunity employer. We evaluate qualified applicants without regard to race, color, religion, sex, national origin, disability, and other legally protected characteristics.