

PhD STUDENT - (REF.: PhD_LM_58)

The Josep Carreras Leukemia Research Institute (IJC) is a nonprofit research institute based in Barcelona and dedicated to advancing our understanding about leukemia 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 leukemia. The IJC offers an excellent work environment built around a multi-disciplinary fusion of ideas and state-of-the-art facilities.

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

The Josep Carreras Leukemia Research Institute is looking for a **PhD student** to provide scientific support to the T cell lymphoma group led by **Dr. Laura Mondragón**.

Research Description

The main research project of the group is focused on the development of new metal new preclinical mouse models for the study of T cell lymphomas and the validation of new therapeutic strategies for their treatment based on the use of nanoparticles. We are looking for a motivated PhD student which gives support to the group in the synthesis of nanoparticles and their validation as new therapeutic entities in vitro and in vivo. The candidate will develop his/her research mainly at Catalan Institute of Nanoscience and Nanotechnology at UAB.

For more information, please visit our group webpage:
https://www.carrerasresearch.org/en/t-cell-lymphoma_177482

What we need

- A person with a degree in Chemistry, Biochemistry, Biotechnology or similar.
- Master's degree in the field of biomedicine or chemistry will be considered.
- Previous experience in basic chemical synthesis.
- Previous experience in cell culture will be a plus.
- A person eager to learn quickly and being able to work independently at some points.
- A person able to work with murine animal models.
- High level of collaborative and communicative skills and able to adapt to different lab environments.
- Good level of English speaking and writing skills.



Main Responsibilities

- To develop the chemical synthesis and chemical and physical characterization of different metal nanoparticles
- Validation of the stability of these new nanoparticles in different biological media
- To test their toxicity and cellular uptake in cellular models
- To validate their biocompatibility and to study their biodistribution in different mice models associated or not with blood malignancies.

What we offer

- PhD contract 3-4 years starting in September/October 2022.
- Incorporation to a recently created research group.
- An exciting and innovative research project.
- Working in the mixed biology and chemistry research environment at the Josep Carreras Leukemia Research Institute and the Inorganic Nanoparticles laboratory at Catalan Institute of Nanoscience and Nanotechnology.
- To analyze and interpret data and to prepare presentations lab meetings, and for grant preparation and peer-reviewed publication.
- Contract details will be negotiated and consider the track record of the candidate.

How to apply

To apply for this opportunity, please send your resume and a cover letter and (incl. the contact details of two referees) to jobs@carrerasresearch.org including the reference: **PhD_LM_58**.

Deadline for Applications

Please submit your application by **14/07/2022**.

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.

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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.