

## LABORATORY TECHNICIAN (EXPERIMENTAL OR COMPUTATIONAL BACKGROUND)-3D CHROMATIN ORGANIZATION (REF.:RA\_BJ\_93)

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

The team of Biola M. Javierre at the Josep Carreras Leukaemia Research Institute is currently seeking for an enthusiastic Research Assistant to help them to complete studies on the role of 3D genome architecture in normal and malignant hematopoiesis. The contract will be funded by the Deutsche José Carreras Leukämie-Stiftung.

Javierre Team is a group of passionate scientists with an insatiable thirst for learning about spatio-temporal organization of the DNA. Our group combines cutting-edge experimental and bioinformatics approaches to understand the specific 3D chromatin organization of haematopoietic cells and its alteration in blood cancers. Our long-term goal is to keep taking steps forwards in the fight against cancer. We will be unstoppable until we cure it. To do so, we have established a close collaboration with the group lead by Alfonso Valencia, Barcelona Supercomputing Center (<https://www.bsc.es/>).

The main research goals of our lab are:

- Defining the cell type-specific 3D chromatin organization in human haematopoietic cells.
- Identifying the altered DNA topology in blood cancer
- Study non-coding mutations to prioritize new candidate genes and pathways related to blood cancer based

For more information, please contact 3D Chromatin Organization Research Group's webpage (<https://www.javierrelab.com/>) and the IJC web page ([https://www.carrerasresearch.org/en/3d-chromatin-organization\\_78766](https://www.carrerasresearch.org/en/3d-chromatin-organization_78766)).

### What we need

- A high level of motivation and interest
- Previous experience in mouse experimentation, iPSCs cell culture and OR omics (ChIP-seq, Hi-C, etc)
- Expertise in single-cell approaches, FACs or computational analysis will be a plus
- Excellent communication and organizational skills
- Good level of oral and written English

## What we offer

- Temporary position
- An exciting and innovative research project.
- Working in the mixed basic and clinical research environment of the Josep Carreras Leukaemia Research Institute.
- Incorporation in a multinational and highly collaborative team.
- The stimulating environment of the Barcelona metropolitan area.

## 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](mailto:jobs@carrerasresearch.org) indicating in the subject of the message: **REF.: RA\_BJ\_93**.

## Deadline for Applications

Please submit your application by November 30<sup>th</sup>, 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>



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.**