

## JOB OPENING AT IRB BARCELONA

### Research Technician/Lab Manager for the Inflammation, Tissue Plasticity & Cancer laboratory (ref. LAB/22/04)

Created in 2005 by the Generalitat de Catalunya (Government of Catalonia) and the University of Barcelona, IRB Barcelona is a Severo Ochoa Centre of Excellence—a seal that was awarded in 2011.

The institute is devoted to conducting research of excellence in biomedicine and to transferring results to clinical practice, thus improving people's quality of life, while simultaneously promoting the training of outstanding researchers, technology transfer, and public communication of science. Its 27 laboratories and seven core facilities address basic questions in biology and are orientated to diseases such as cancer, metastasis, Alzheimer's, diabetes, and rare conditions.

IRB Barcelona is an international centre that hosts 400 members and 30 nationalities. It is located in the Barcelona Science Park. IRB Barcelona forms part of the Barcelona Institute of Science and Technology (BIST) and the "Xarxa de Centres de Recerca de Catalunya" (CERCA).

IRB Barcelona is seeking a Research Technician to join the Inflammation, Tissue Plasticity & Cancer laboratory (Dr. Direna Alonso-Curbelo) as a lab technician or lab manager. Our lab aims to understand how oncogenic mutations and environmental insults alter normal cellular identity and tissue homeostasis to drive and sustain cancer, with a focus on pancreatic and liver malignancies. To do so, we combine functional genomics tools (CRISPR/Cas9; RNAi), mouse models and organoid/cell culture systems, and (epi)genomic methods including single-cell technologies.

The successful candidate will perform molecular/cellular biology techniques (eg. cloning, DNA/RNA/protein extractions, cell culture, genotyping) and in vivo work (eg. preclinical animal models, rodent surgeries, tissue processing) to support projects within the research lines of the lab; and assist in setting up and maintaining the lab's organizational and experimental pipelines.

The successful candidate will benefit from the dynamic environment of a new lab, and will be provided with on-the-job technical and scientific training in a collaborative environment. There will also be opportunities to have their own independent project and train undergraduate students and incoming lab members. Prior experience working with laboratory rodent models is required, and knowledge in cancer biology, genome editing tools and bioinformatics will be positively considered.

#### DUTIES

- The research technician or lab manager will implement established and new experimental approaches and will be expected to perform organizational duties under minimal supervision.
- **Research activities** may include (but are not limited to) DNA/RNA extraction, plasmid cloning, qRT-PCR, immunoblotting, mouse handling, minor surgeries (pancreas, liver, tumor transplantation), iv/ip injections, tissue processing, cell line/organoid culture and genetic manipulation (CRISPR/Cas9, RNAi), flow cytometry and histology, preparation of lab reagents, basic statistical data analysis and performing literature search to contribute with new ideas on topics related to the lab's research goals.
- **Operational activities** may include (but are not limited to) monitoring and ordering supplies; managing mouse colony; setting up and operating lab equipment; organizing data repositories,



IRB BARCELONA endorses the Requirements and Principles of the *European Charter for Researchers*, the *Code of Conduct for the Recruitment of Researchers*, and Open, Transparent, Merit-based recruitment promoted by the European Commission and follows Equal Opportunities policies.

On 9 December 2014, IRB Barcelona was awarded the "HR Excellence in Research" logo. This recognition reflects the commitment of the Institute to the continuous improvement of its human resources policies in line with the *Charter & Code*. The Institute works to ensure fair and transparent recruitment and appraisal procedures.

lab freezers/fridges and chemical inventory; maintaining the lab website, updating animal/safety protocols; assisting team members in planning or execution of experiments; and contributing to an enriching, positive and inclusive lab environment.

- **Team dynamics:** While prior expertise in the above activities will be positively valued, there will be ample opportunities for learning/training in the conceptual and experimental fronts driving our research forward. Thus, we are looking for a skilled, pro-active and enthusiastic scientist that will not only contribute to the lab goals with their prior expertise but who is also committed to learning new techniques and concepts. The technician/lab manager will also have opportunities to oversee and train undergraduate students and to work with the PI in mentoring junior lab members.

## EXPERIENCE, KNOWLEDGE, SKILLS & SELECTION CRITERIA

### Must Have - Required

- **Experience:**
  - Bachelor's or Master's degree in molecular/cell biology, chemistry, biomedicine or other scientific disciplines in a related field; or Certificate of Vocational Training (FP) in a related field and two (2) years of experience.
  - Prior experience with rodent-handling procedures and animal husbandry/colony management.
- **Knowledge:**
  - Laboratory techniques, equipment, and support processes and practices.
  - Organization of data, reagents and protocols; statistical analysis; computer literacy.
  - Must be willing to learn new laboratory skills such as transcriptomic and proteomic analyses and rodent survival surgery procedures.
- **Skills:**
  - Interpersonal and effective communication skills.
  - English (fluent, oral and written).
  - Ability to work independently well as within a team.
  - Highly organized, detailed-oriented, pro-active attitude.
  - Time- and deadline-management skills.

### Desirable

- **Experience:**
  - Training in competitive research environment.
  - Prior lab technician/management experience, and/or PhD/post-doctoral training will be positively evaluated.
  - Background in cancer and/or inflammation/immunology.
  - Experience with rodent surgeries is also a plus.
- **Knowledge:**
  - Experience with Pancreatic or liver cancer/regeneration models.
  - Immunophenotyping, histology, DNA cloning, cell/organoid culture.
  - Data visualization / biostatistics / bioinformatics (Python, R programming)
- **Skills:**
  - Ability to coordinate and perform multiple tasks.



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- Critical thinking.

## WORKING CONDITIONS & ENTITLEMENTS

- **Working conditions:** Employed in compliance with Spanish legislation and regulations under a full-time contract. Employees receive the benefits of the Spanish Social Security system covering sickness, maternity/paternity leave and injuries at work. Desk space (with a computer) as well as a working bench are provided to each member of the team.
- **Estimated annual gross salary:** Salary commensurate with experience and qualifications.
- **International Environment:** The opportunity to join a prestigious, diverse and inclusive international research institution and to become a member of an established research group.
- **Benefits:** Continuous training in a high-quality environment with unique professional career opportunities.

## HOW TO APPLY & SELECTION PROCESS

Applications for the above opening should include Motivation Letter and Full CV (including references) and should apply on <https://recruitment.irbbarcelona.org/>, Reference: **LAB/22/04**

- **Deadline for applications:** 20/02/2022 (early application is encouraged)  
If no suitable candidate is found, the deadline will be extended.
- **Number of positions available:** 2
- **Selection process:**
  - **Pre-selection:** Will be based on CV, motivation letter, experience/soft-skills, management of research and innovation.
  - **Interviews:** Short-listed candidates will be interviewed by the PI and a scientific committee.
  - **Job Offer:** Will be sent to the successful candidate after the interview.

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For more information please visit our website at: [www.irbbarcelona.org](http://www.irbbarcelona.org)

*Note: The strengths and weaknesses of the applications will be provided upon request.*

*If you, as an applicant, have any suggestion or wish to make a complaint regarding the selection process, please contact us at the following email address: [irbrecruitment.suggestions@irbbarcelona.org](mailto:irbrecruitment.suggestions@irbbarcelona.org)*



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