

JOB OPENING AT IRB BARCELONA

Bioinformatician/Computational Biologist (ref. LAB/21/02)

Created in 2005 by the Generalitat de Catalunya (Government of Catalonia) and 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 25 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 seeks a highly motivated Bioinformatician to join as soon as possible the **Stem Cell and Cancer group** (Dr. Salvador Aznar Benitah). The Stem Cell and Cancer group aims at understanding the molecular mechanisms underlying the spatiotemporal regulation of adult stem cells in the healthy tissue, and how these are deregulated during ageing and cancer. We have a particular interest in understanding how tissues communicate during homeostasis and how cancer cells systemically alter distant tissue function to their own advantage. To do so, we combine high-throughput bulk, single cell, and spatial genomics and proteomic data with *in vivo* models. The successful candidate will be involved in the analysis of the data from different projects, but very importantly in contributing to the conceptual development of the project. This position will be financed by the proyecto "Impacto de nuestra dieta sobre el proceso de la metástasis tumoral" (PID2019-107583GB-I00 / AEI / 10.13039/501100011033).

DUTIES

- Analyze the data generated in the lab and actively participate in the conceptual development of the project from a computational perspective.
- Integrate large sets of data to better understand the role of transcriptional, epigenetic, proteome and spatial mechanisms in regulating the function of adult and cancer stem cells (especially in metastasis).

EXPERIENCE, KNOWLEDGE, SKILLS & SELECTION CRITERIA

Must Have - Required

- **Experience:** Degree and/or PhD in Bioinformatics, and extensive experience with bioinformatic analysis
- **Knowledge:**
 - Strong background in ChIP-sequencing analysis, gene expression analysis (RNA-seq, single cell RNA-seq, and optimally in spatial RNA-seq) and integration of large data sets
- **Skills:**
 - Fluent in English
 - Highly independent, motivated, ambitious, and collaborative person
 - Good organizational and communication skills



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 9th 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.

Desirable

- **Experience:** The candidate must have extensive experience in bulk RNA-seq, single cell RNA-seq, ChIP-seq and ATAC-seq. Experience in positional RNA-seq would be desirable but is not indispensable to apply to the position.

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 leaves and injuries at work. Salary commensurate with experience and qualifications.
- **International Environment:** The opportunity to join a prestigious international research institution and become a member of an established research group. To actively contribute to the projects and not simply provide basic analysis to the team. The applicant will be a very active member of the lab contributing very significantly to the development of our research.
- **Continuous training** in a high-quality environment.

HOW TO APPLY & SELECTION PROCESS

Applications for the above opening should include a **full CV** (list of publications, techniques and contact details), **motivation letter** describing past and current projects (not more than 1.5 pages) and should apply on <https://recruitment.irbbarcelona.org/>, reference: LAB/21/02.

- **Deadline for applications: 01/10/2021**
If no suitable candidate is found, the deadline will be extended.
- **Number of positions available: 1**
- **Selection process**
 - **Pre-selection:** Will be based on CV, motivation letter and experience.
 - **Interviews:** Short-listed candidates will be interviewed.
 - **Job Offer:** Will be sent to the successful candidate after the interview.

For more information please visit our website at: 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. You will receive a response within a month.