

CONV. ID-101/2022 IDIBAPS

1. POSITION OFFERED

1.1. A job is being opened to cover **1 Position of R2A-Postdoctoral Researcher (G1-Researchers)** to support the research of **INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER (IDIBAPS)** inside the Study of Crohn's disease at the single cell level research line at the Inflammatory bowel disease group. The position is associated to the "Early detection of perianal fistulizing disease using single cell RNA analysis and spatial transcriptomics" research project, with a scientific-technician activity contract in the following requirements:

Required qualifications and skills:

- **Required Education Level:** PhD.
- **Specialty:** Must have a doctoral degree in bioinformatics, data science, biostatistics, computer science, machine learning, mathematical modeling data analytics or a closely related discipline.
- **Experience Required:**
 - ✓ **ESSENTIAL CRITERIA:**
 - Must have bulk RNA-seq and single-cell sequencing analysis expertise.
 - Excellent communication and interpersonal skills including excellent oral and written English skills.
 - Must know how to work in a clinical setting within data protection and confidentiality boundaries.
 - ✓ **DESIRABLE CRITERIA:**
 - Experienced in analyzing molecular data from clinical samples derived from the colon and/or inflammation human research.
 - Experience in managing and analyzing large transcriptomic datasets.
 - Experience using high-performance computing or cloud computing environments, ideally in a transcriptomics environment.
 - Strong creative interest in developing a research agenda within the scope of the project. Excellent interpersonal and communication skills with a proven ability to disseminate research to the public, e.g., presentations, workshops, etc.
 - Demonstrated experience of working effectively, independently and as part of a research team or collaborative project.
- **Skills:**
 - ✓ Highly motivated, enthusiastic, and collaborative person.
 - ✓ Good capacity planning.
 - ✓ Teamwork skills.
 - ✓ Good communication skills.
- **Required Languages:** Excellent oral and written English skills.

Job description / Tasks to be developed:

We are looking to appoint a highly motivated postdoctoral fellow to join the laboratory of Dr. Azucena Salas at the Inflammatory Bowel Disease Unit (IDIBAPS, Barcelona, Spain). The IBD Unit is a highly interdisciplinary team leading translational and clinical research in IBD. Our research group possesses the know-how to characterize the mechanistic aspects of drug response in humans and experimental models of IBD, using a variety of approaches including gene expression in bulk, and single-cell RNA sequencing studies, tissue and primary cell cultures, flow cytometry, Immunostaining, and spatial transcriptomics. Our team has national and international funding for different projects involving single-cell transcriptomics and spatial 'omics data. The candidate will be responsible for defining, conducting, and disseminating high-impact research, and promoting best practices in collaborative open science within the team, and with local, national and international collaborators. The candidate will engage with collaborative projects in single-cell genomics that includes academic, clinical and industry partners from across Europe, North and South America. The successful candidate should have demonstrated experience in the analysis of transcriptomic data, preferably from clinical research studies.



HR EXCELLENCE IN RESEARCH

RESEARCH:

- ✓ Work with in-house large single-cell transcriptomics and spatial omics datasets, as well as from collaborators and public repositories.
- ✓ Contribute to the research program of the Department under the general guidance of the project Principal Investigator.
- ✓ Share research results with collaborators using interactive web applications (preferably using Shiny webs in R) on our dedicated server.
- ✓ Work in a collaborative environment and conduct collaborative research.
- ✓ Determine appropriate methodologies for research, with advice and support as appropriate. Assess research findings for the need/scope for further investigations.
- ✓ Translate knowledge of advances in the subject area into research activity (publications, software packages, presentations etc.).

RESEARCH MANAGEMENT:

- ✓ Work independently and in a timely fashion with meticulous attention to detail in all aspects of the job to obtain valid research results.
- ✓ Work with individuals from various backgrounds and fields of expertise.
- ✓ Manage own personal and research resources (including where required, laboratories, and specialist equipment) appropriately.
- ✓ Write up results from his/her own research activity.
- ✓ Contribute to the research project's dissemination including, but not limited to, publication of software packages, websites, reports, research articles or book chapters.
- ✓ Present information on research progress and outcomes, e.g., to bodies supervising research; conferences, steering groups, other team members, as agreed with the PI/Project Leader.

SUPERVISION:

- ✓ May act as co-supervisor or be a member of a supervision panel of PhD students.
- ✓ May act as mentor to students on undergraduate placement policy & standards.

Salary in the region of 29-35K Euros/year (dependent on experience) + benefits

Presentation of applications:

All documents must include the reference code of the job offer (see upper left corner of the call).

- Candidates must enclose a motivation letter and their Curriculum Vitae (including list of publications).
- Proof of the merits exposed and the degree obtained must also be included in the application.
- The application must include also signed authorization in reference to personal data protection law - European Regulation (UE) 2016/679- (Document attached, Page 4).

Place of submission: (clearly indicating the reference code of the job offer)

1. Delivering it personally to the Dept. of human resources, located on the Esther Koplowitz Centre, C/Rosselló 149, from 10 am to 1 pm from Monday to Friday.

2. By e-mail to the e-mail address: fcbrrhh@recerca.clinic.cat

Application Deadline: 31.01.2023.

1.2. The recruitment will be carried out according to the provisions of Article 15 of the Royal Legislative Decree 1/1995, of 24 March, which approves the text of the law of the Statute of workers, in accordance with the provisions of art. 2 of the Royal Decree 2720/98, of 18 December (BOE of 8 January 1999), law 12/2001, of 9 July (B.O.E. of 10 July) and concordant provisions.

The principle of equal treatment between men and women will be considered, according to article 14 of the Spanish Constitution, the Community Directive of 9 February 1976 and what is foreseen in the agreement of the Council of Ministers of 4 March 2005, which approves the plan for gender equality in the General Administration of the State.

The universal accessibility for disabled persons will be considered according to the second paragraph of Article 1 of the law of December 2 51/2003 of equality of opportunities; 5% of the vacancies are preserved when candidates' pas the selection process and disabilities are proved. Also, compatibility with the tasks associated to the job must be proved so that progressively we reach 2% of all workforces.

1.3. Annual gross remuneration inherent to the job offer object of this call will be fixed on the basis of the experience provided and the skills of the candidates.

1.4. In accordance with Regulation (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data (hereinafter the "Regulation"), we hereby inform you that:

- The party responsible for processing your data is the Institut d'Investigacions Biomèdiques August Pi i Sunyer (hereinafter "IDIBAS"), with Corporate ID No. Q5856414G, and registered address in Barcelona, Carrer Rosselló 149-153. You may contact the Data Protection Manager by sending an email to protecciodades.recerca@clinic.cat or by writing to the Legal Director at Carrer Rosselló 149-153, Barcelona.
- When presenting your candidacy or sending us your CV, your data must be communicated with the aim and purpose of allowing employees at the entity to carry out management and selection processes.
- The information will be used by administrative and employee services in our entity, for their corresponding services, and may be submitted in full or in part to any authorities that, for legal reasons, require this type of information.
- The data provided will be held for a period of 1 year, and in addition once the relationship has been completed the data will be held for the period necessary to comply with legal provisions.
- The data provided may be transferred to a third country or international organisation, where necessary to justify the contract and/or salary of the employee providing the data.
- You have the right to access your data, request rectification of inaccurate data or request the removal of your data. Equally, you have the right to restrict the processing of your data, and you may oppose or withdraw consent for your data to be used in certain circumstances. You may exercise these rights by writing to the Legal Director at Carrer Rosselló 149-153, Barcelona, or by sending an email to protecciodades.recerca@clinic.cat. We also inform you of your right to file a complaint with the Catalan Data Protection Authority (Autoritat Catalana de Protecció de Dades) for any action taken by IDIBAPS that you believe infringes your rights.
- Since 2015, IDIBAPS holds the "[HR Excellence in Research](#)" Award from the European Commission. This is a recognition of the Institute's commitment to developing an HR Strategy for Researchers, designed to bring the practices and procedures in line with the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers ([Charter and Code](#)). Please check our [Recruitment Policy](#)

Barcelona, November 23th of 2022
Marta Fernandez Cufí
Human Resources Manager



I Authorize at:

INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER (IDIBAPS) to treat my personal data for the personnel selection procedure, which will cede it only in these legally enforceable cases, in accordance with the provisions of European Regulation (UE) 2016/679, and corresponding regulations that develop it.

Name:
Signed:

Barcelona,