



9 Positions - R1-Predocctoral Researchers in biomedicine at FRCB-IDIBAPS

Code: FU-260/2025

About the institution

The Barcelona Clinical Research Foundation-August Pi i Sunyer Biomedical Research Institute (IDIBAPS) is a biomedical research centre of excellence, located on the Barcelona Clinic Campus and with a clear international focus.

The IDIBAPS research community includes over 2,000 professionals and a hundred multidisciplinary groups that carry out high-impact translational research aimed at addressing biological and clinical questions relevant to human health, as evidenced by the more than 1,500 original articles published each year that make the institution one of the main biomedical research centres in Spain.

The Clínic Campus offers a high-level research and innovation environment, which includes the Hospital Clínic of Barcelona, a referral hospital committed to care, research and teaching, which covers practically all medical and surgical specialties, plus the University of Barcelona's Faculty of Medicine and Health Sciences. The latter dates from 1843 and is today one of the most prestigious health sciences faculties in Spain and worldwide.

Since 2015, IDIBAPS has had [HR Excellence in Research](#) accreditation from the European Commission. It is a CERCA centre and is accredited as a Health Research Institute by the Carlos III Health Institute (ISCIII).

Most relevant IDIBAPS figures

~100

Research groups

+2,000/year

Publications
+1400 original articles

+2,000

People devoted to research

~80,000,000€/year

Implemented funds

~300/year

New competitive projects

+1,000

Active competitive projects

~90

Patent portfolio

~100/year

Doctoral theses

~50/year

Seminars



Job description

9 R1 positions linked to the funding of the Spanish call “*Proyectos de Generación de Conocimiento 2024*” supported by MICIU/AEI/10.13039/501100011033 and FSE+”:

Requirements for all the positions:

- Academic requirements:
 - European Higher Education System: university degree and Master (at least 300 ECTS) or equivalent education to access to a PhD programme in Spain or;
 - Non-European Higher Education System: university degree that give access to doctoral studies in the country of issue (certified by the competent body). All the documentation must be delivered both legalised and officially translated in Catalan, Spanish or English (if applies).
- Excellent academic record
- Scientific/technological curricular merits to properly match the selected research project, including previous research experience
- Mobility and/or internationalisation experience recommended but not mandatory
- Strong motivation for research
- Good command of English

Candidates can select up **two** potential host research groups.

Description of the research projects and the desirable criteria to be accomplished in each case:

- a. **Research group:** Theoretical neurobiology of cortical circuits, Albert Compte
Project: Neuropsychiatric cognitive symptoms by defective synaptic plasticity in recurrent neural networks performing complex working memory tasks
Desirable criteria:
 - Strong interest in cognitive computational neuroscience
 - Strong background in math, physics or computer science (or equivalent)
 - Good programming skills (Python)
- b. **Research group:** Lipid trafficking and disease, Albert Pol
Project: Lipid droplets as innate immunity hubs
Desirable criteria:
 - Degree in Biology, Medicine, or similar.
 - Profiles with experience in Immunology, Cell Biology, or Bioinformatics will be especially considered.
 - Previous experience in the design and development of research projects will be valued positively.
- c. **Research group:** Immunogenetics and immunotherapy in autoinflammatory and immune responses, Juan Ignacio Arostegui
Project: Immunogenetics and immunotherapy in autoinflammatory and immune

responses

Desirable criteria:

- University degree obtained after 2021
- Strong interest in immunology, human genetics and bioinformatics.
- Official certificate of bioinformatics courses
- Good planning abilities and strong teamwork skills

d. **Research group:** Inflammatory Bowel Disease, Azucena Salas

Project: Inflammatory Bowel Disease

Desirable criteria:

- Bachelor's and Master's degree in Biomedicine or a related field
- Minimum of 6.5 (on a scale of 0-10) in your average score (Bachelor's and Master's degree)
- Strong desire to learn and contribute to research
- Excellent communication and organizational skills
- The candidate should be able to work both in group and independently depending on the specific tasks and projects.
- Previous knowledge on immunology, cell biology and data analysis will be valued. No specific accreditations are required.

e. **Research group:** Systems neuroscience, Mariana Babo-Rebelo

Project: Autobiographical Memory

Desirable criteria:

- Background in cognitive neuroscience, psychology, biology, medicine, biomedicine or other relevant fields
- Previous research experience, preferentially in human cognitive neuroscience (behavioural testing, electrophysiology, TMS, fMRI...)
- Technical skills: at least beginner level in programming (Matlab, Python, R...)
- Previous professional experiences outside Spain will be valued positively
- Other skills: capacity of organisation and adaptation, teamwork
- English (required), Spanish (preferred)

f. **Research group:** Microenvironment in lymphoma pathogenesis and therapy, Patricia Pérez-Galán

Project: Microenvironment in lymphoma

Desirable criteria:

- Highly motivated, research-driven, enthusiastic, and efficient researcher
- Creativity, initiative, endurance, good communication skills (Spanish and English) and a proactive approach to solving problems and developing new ideas.
- Be able to work independently as well as part of a team, as most group projects have common grounds.
- Previous experience in cancer research, 3D culture and primary cell culture, generation of cell therapy along with flow cytometry and bioinformatics will be a value.
- Title of animal experimentation will be needed.

- g. **Research group:** Alzheimer's disease and other cognitive disorders, Anna Martínez-Muriana
Project: Uncovering the contribution of ABI3 to Alzheimer's disease and human microglia using novel humanized models
Desirable criteria:
- Background in neuroscience, bioinformatics, or related life sciences disciplines
 - Hands-on experience in molecular biology (e.g., gene editing, cloning) and working with animal models
 - Expertise in transcriptomics analysis (R, Python)
 - Enthusiasm, strong organizational abilities, and a collaborative mindset
- h. **Research group:** Cortical circuit dynamics, Jaime de la Rocha
Project: Neural mechanisms of decision making and working memory
Desirable criteria:
- Experience in quantitative data analysis using Python or R (or be very eager to learn).
 - Experience performing behavioural experiments, optogenetics or electrophysiology in rodents will also be a plus.
 - Having a certificate to work with laboratory animals will also be highly valued.
- i. **Research group:** Molecular Pathology of Lymphoid Neoplasms, Elías Campo
Project: Molecular Pathology of Lymphoid Neoplasms
Desirable criteria:
- Background in tumor biology and tumor immunology
 - Experience in techniques used in cell and molecular biology, such as flow cytometry (FACS), immunofluorescence, ELISA assay
 - Experience in next generation sequencing (NGS) protocols and genomic data analysis.
 - Knowledge of R language is highly preferred
 - Highly motivated, enthusiastic and collaborative person
 - Excellent organizational skills and ability to deliver to specific deadlines
 - Strong teamwork skills and disposition to work in interdisciplinary teams
 - Independent, highly interested and motivated person in the biomedical field
 - Team oriented person with good written and verbal communication skills

You can find more information about the groups and the research lines [here](#)

IDIBAPS offers

- **Type of contract:** Temporary predoctoral contract.
- **Working hours:** Full time (37.5 hours / week).
- **Funder and official project code:** MCIU/AEI/10.13039/501100011033 and FSE+”
- **Incorporation into IDIBAPS:** A research centre of excellence in the city of Barcelona. Excellent research results and competitive project grant awards, both national and

international.

- Long-life training offered by the institute.
- **Working conditions:** Holiday entitlement of 22 days + 6 days for personal affairs, flexible working hours and flexible remuneration (health insurance, transport, meal vouchers, training).
- **The chance to form part of a dynamic work environment:** We are a team with a wealth of experience that jointly evaluates ideas and strategies and promotes a healthy work-life balance.

How to apply

Send the following documents to fcrbrhh@recerca.clinic.cat indicating the call reference FU-00-2025 in the subject.

- **Curriculum Vitae.** Please fill [this template](#)
- **Motivation letter.** Indicating the chosen laboratory and the motivation to join the selected research project. If you would like to select two options, please prepare two motivation letters
- **Two reference letters.**
- Accrediting documentation of the merits presented and the required documentation.
- Sign and attach the Authorisation relating to EU Regulation 2016/679 on the protection of personal data (*attached document, page 7*) must be attached to the application.

Selection process:

The selection of the fellows will be carried out by the leaders offering the positions and will follow the principles of [open, transparent and merit-based recruitment](#).

- Pre-selection: the pre-selection will be based on the candidate's CV, motivation letter, reference letter and the research interests.
- Interviews: the pre-selected candidates will be invited to an oral interview to further assess their qualification and research motivation.
- Notification to the candidates: the successful candidates will receive a notification after the oral interview with the expected start date.

Deadline: until October 12th, 2025.

For any doubts, please contact academic@recerca.clinic.cat

The employment contract will be in accordance with the provisions of Legislative Decree 1/1995, of 24 March, approving the text of the Workers' Statute Law, of Law 14/2011, of 1 June, on science, technology and innovation in accordance with the provisions of Art. 2 of Royal Decree 2720/98, of 18 December (BOE of 8 January 1999), Law 12/2001, of 9 July (BOE of 10 July) and concordant provisions.

The principle of equal treatment between men and women fundamental, in accordance with Article 14 of the Spanish Constitution, the European Community Directive of 9 February 1976, and the provisions of the Agreement of the Council of Ministers of 4 March 2005, approving the Plan for Gender Equality in the General State Administration.

The universal accessibility of people with disabilities is fundamental according to section 2 of Article 1 of Law 51/2003, of 2 December, on equal opportunities, and 5% of vacancies are reserved as long as candidates pass the selection processes and accredit their disability and compatibility with the tasks to be carried out, so that we progressively reach 2% of the total workforce.

The gross annual remuneration relating to the position that is the subject of this call will be established based on each candidate's experience and aptitudes.

[Link to Regulation \(EU\) 2016/679 of 27 April on the protection of natural persons with regard to the processing of personal data](#)

Barcelona, on September 3rd, 2025.

Authorisation request

I hereby authorise:

The **FUNDACIÓ DE RECERCA CLÍNICA BARCELONA – INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER (IDIBAPS)**, to process my data for personnel recruitment purposes, transferring them only in cases where legally required, in line with the provisions of Regulation (EU) 2016/679, and the corresponding regulations that develop it.

Name and Surname:

DNI/NIE/ID:

Signed:

Barcelona,