

## The IBB wants to attract talent to apply for the **Margarita Salas Postdoctoral Grants**

*(call opens ~June 1<sup>st</sup> 2022)*

The [Institut de Biotecnologia i de Biomedicina \(IBB\)](#), of the Universitat Autònoma de Barcelona (UAB), is interested in receiving Margarita Salas Postdoctoral candidates.

The IBB's mission is to discover and accelerate the development and implementation of relevant clinical knowledge and science-based products to make it easier for patients to live longer and in better conditions.

**Some of the lines of research that would be available to recipients of these grants would be:**

- **“Molecular basis of spermiogenesis and the development of biotechnologies for the in vitro production of fertile sperm in fish”** This project will apply different experimental approaches to investigate the molecular mechanisms involved in the maturation of spermatozoa, including chromosome conformation capture sequencing (Hi-C), RNA sequencing (RNA-seq), and chromatin immunoprecipitation sequencing (ChIP-seq). [Group Dr. Joan Cerdà](#)
- **“Novel platforms for protein expression in yeasts: Synthetic biology approaches to exploit pH-regulatable promoters”** We aim to use current knowledge in gene regulation in response to moderate alkalization in yeasts to design, construct by using combinatorial methods, and experimentally test hybrid promoters in both *S. cerevisiae* and *P. pastoris*. The ultimate goal is to define novel expression platforms for industrial heterologous protein production. [Group Dr. Joaquín Ariño](#)
- **“Exploring the dynamics of genome architecture and gene function in Vertebrates”** The central goal of this project is to investigate the evolutionary plasticity and function of the 3D vertebrate genome organization, and how this is transmitted to the offspring by using a multidisciplinary approach that will combine cutting-edge computational and experimental methods. [Group Dra. Aurora Ruiz](#)
- **“Identifying new genes involved in mammalian gametogenesis”** The main objective of the research group is to study, through genetic, molecular and cell biology approaches, the mechanisms that regulate spermatogenesis and oogenesis in mammals and to identify new genes involved in these processes. [Group Dr. Ignasi Roig](#)
- **“Functional and evolutionary analysis of inversions in the human genome”** As part of the INVEST project, this study aims to determine the impact of human polymorphic inversions at multiple levels by combining methods of different disciplines, such as novel genomic analysis, bioinformatics, population genetics, and molecular evolution. [Group Dr. Mario Cáceres](#)

- **“Novel Nanocarriers for Brain Disease Teranostics”** Our main goal is the desing and validation of nanocarriers for biomedical applications related to brain disease treatment and diagnosis by intranasal administration. [Group Dra Julia Lorenzo](#)

The IBB has an **excellent scientific background in the field of biotechnology and biomedicine**, and we stand out for collaborative and multidisciplinary research in order to advance in the frontiers of knowledge and innovation. We have a **record of excellent publications**, with an average of 86 publications per year, of which 80% are in Q1 and 50% in D1 (ratio of 0.72 publications / researcher per year) and in addition, we are characterized by our links with the UAB departments at the faculties where we teach but also by the access to all the infrastructure and services offered at UAB university campus.

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### Margarita Salas grants eligibility & details

- o Duration: 2 years
- o PhD diploma: obtained June/July 2020 – June 2022\*
- o Gross salary: around 25,5 k€ per year
- o You can only apply to Margarita Salas grants at UAB (1) if your thesis was performed at UAB (to do research elsewhere, at least the 1<sup>st</sup> year), or (2) if your thesis was performed at a private Spanish University or (3) if you hold Spanish nationality and your thesis was performed outside Spain. *If you did your thesis at another Public University within Spain, you should check the conditions of M Salas grants there: you can apply there to come to UAB for doing your postdoc.*

\* *medical/paternity/maternity leave may prolong the eligible period*

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If you are willing to apply to Margarita Salas grants to do research at the IBB, **contact us at [promocio.ibb@uab.cat](mailto:promocio.ibb@uab.cat)**.

**Deadline: June 12<sup>th</sup> 2022**