



PREDOCTORAL RESEARCHER POSITION GRANT (FPI)

INSTITUTION

The Hospital del Mar Research Institute is the research center of the Barcelona Mar Health Park Consortium and a member of the Barcelona Biomedical Research Park (PRBB). It provides an exceptional framework for translational research and offers state-of-the-art technological platforms (flow cytometry, animal facility, microscopy, etc.) as well as close collaboration with the Hospital del Mar.

POSITION

Predoctoral researcher position as a part of the research group Poly(ADP-ribose) polymerases (https://www.imim.es/programesrecerca/cancer/en_polimerases.html) with a predoctoral contract supported by the grant reference PID2023-146049OB-I00, funded by MICIU/AEI/10.13039/501100011033 and by FSE+.

OFFER

- Predoctoral researcher position.
- Predoctoral researcher employment contract governed by Article 21 of Law 14/2021, of June 1, on Science, Technology, and Innovation, and Royal Decree 103/2019, of March 1, on the Statute of Research Personnel in Training.
- Full-time contract.
- Salary according to the provisions of Royal Decree 103/2019, of March 1, on the Statute of Research Personnel in Training, paid in 12 instalments.
- Incorporation within 3 months from the definitive resolution.



CANDIDATE REQUIREMENTS

- ✓ Degree in Biology or related fields.
- ✓ Master in science or related fields.
- ✓ At the time of hiring, the candidate must provide proof of admission to a doctoral program.

Once the candidate has enrolled in the doctoral program, they will need to submit a copy of the formalized enrollment to the contracting institution.

SELECTION CRITERIA

- 1) Academic and/or scientific-technical trajectory of the candidate. (Up to 50 points).
 - 1.a) Scientific-technical contributions: The academic record and other curricular merits of the candidate will be evaluated, as well as their suitability for the tasks to be carried out based on their training and professional experience. (Up to 45 points).
 - 1.b) Mobility and internationalization: The relevance and impact of the candidate's stays in national and international research centers and/or the industrial sector will be assessed, considering the prestige of the hosting entity and the activities carried out there. (Up to 5 points).
- 2) Suitability of the candidate for the research activities to be carried out. The candidate's suitability for the project or research activities will be evaluated based on their previous training and experience. This will include the added value that the completion of the project will bring to their research career, as well as the contribution to the institution and research group. (Up to 50 points).

THE PROJECT

Title: Understanding the regulation of STING dependent signalling pathways by PARP-1 and PARP-2 proteins in cancer (ONCOPAR).

Our proposal aims to identify specific functions of PARP-1 and PARP-2 in modulating STING-dependent signalling pathways in pancreatic cancer and determine their impact in tumour progression. In this line, we have experimental evidence that PARP-1 and PARP-2 modulate the STING response with opposite results in tumorigenesis. To achieve our objective, we will



combine both basic and translational research on STING and PARP enzymes by using different animal models approaches, clinical samples from pancreatic cancer patients and cellular and molecular studies. The gained knowledge of the selective functions of PARP-1 and PARP-2 in modulating STING-dependent effector programmes will allow us on one hand to have a better understanding of the molecular mechanisms and pathways that control STING activation outcome and modulation of the immune response to tumours, and on the other hand, to establish the scientific basics to rationalise the design of new PARP-centred therapeutic strategies. Our results may have an impact on the design of new clinical trials for the treatment of “cold” tumours as pancreatic cancers and others.

APPLICATION OF CANDIDATES

You can submit your application to: jyelamos@researchmar.net

For more information: https://www.imim.es/programesrecerca/cancer/en_polimerases.html