

## Postdoctoral position in the Inherited Cardiomyopathies Laboratory

Hospital Universitario Puerta de Hierro – Madrid (Spain)

**Research topic:** We are looking for a highly motivated candidate to drive a project in molecular biology of miRNA in cardiovascular diseases within the Inherited Cardiomyopathies Laboratory led by Prof. Pablo Garcia-Pavia. The project will be run in close collaboration with the National Center for Cardiovascular Research (CNIC) in Madrid as Prof. Pablo Garcia-Pavia works at both institutions.

**Description of the project:** The main line of research of the group is to understand the mechanisms that lead to phenotype expression in familial (genetic) cardiomyopathies. Cardiomyopathies are responsible of the disfunction and progressive weakness of the heart that results in heart failure. Several drugs have been developed for treatment of cardiomyopathies, however, assessing their impact at short-term is difficult. To enhance the comprehension of the impact of these new therapies our laboratory is seeking to understand molecular factors that modulate the transcriptomic landscape of the cardiomyocytes such as miRNAs. Therefore, the postdoctoral scientist that incorporates to our laboratory will participate in an ambitious and innovative project aimed to characterize the miRNA-fingerprint exhibited in the context of different cardiomyopathies with the aim to provide insights that could contribute to improve the clinical practice in cardiology. For this, the candidate will ***apply molecular techniques to characterize the expression of cardiac disease-specific miRNAs.***

**Offer:** A 18 month salary is available.

**Starting date:** Between September-December 2024.

**Requirements:**

- Experience in the application of molecular techniques and biochemistry to analyse gene expression and biological parameters.
- Scientific contributions in peer-review scientific journal as first author, and presentations in international congresses.
- Outstanding communication skills in English.
- Highly motivated and talented person with the capacity to collaborate with basic and clinical scientists,
- Holding a PhD in Biomedical research or related academic fields with expertise in molecular biology and gene expression as well as an strong interest in human cardiac diseases.

**Place of work:** The Hospital Universitario Puerta de Hierro (HUPDH), Majadahonda, one of the four teaching hospitals of the Medical School of the Universidad Autónoma de Madrid.

Its main entrance is placed in 2 Joaquín Rodrigo Street, 28220. & Centro Nacional de Investigaciones Cardiovasculares (CNIC), Melchor Fernandez Almagro 3, 28029

**For more information see:**

About the Inherited Cardiac Diseases Unit: <https://cardiologiapuertadehierro.com/insuficiencia-cardiaca/unidad-de-cardiopatias-familiares>

About the group: <https://www.cnic.es/es/investigacion/miocardiopatias-hereditarias>

About the CNIC: <http://www.cnic.es/en/cnic/index.php>

**Application:** If you are interested send your CV, **academic record** and ***at least one reference contact details/letter*** to: **Pablo García-Pavía** (pablogpavia@yahoo.es)