



The Vall d'Hebron Research Institute (VHIR) is a public sector institution that promotes and develops the research, innovation and biosanitary teaching of the Vall d'Hebron University Hospital. Through the excellence of our research, we identify and apply new solutions to the health problems of society and we contribute to spread them around the world.



In April 2015, the **Vall d'Hebron Research Institute (VHIR)** obtained the recognition of the European Commission **HR Excellence**. This recognition proves that VHIR endorses the general principles of the **European Charter for Researchers and a Code of Conduct for the Recruitment of Researchers (Charter & Code)**. Thus, there are no restrictions of gender, national origin, race, religion, sexual orientation or age and **candidates with disabilities are strongly encouraged to apply.**



Post-doc Researcher Laboratory Cardiovascular Diseases

Vall d'Hebron Research Institute (VHIR) is a public sector institution, located in Barcelona (Spain) that promotes and develops innovative biomedical research at the University Hospital Vall d'Hebron. VHIR is oriented towards finding solutions to the health problems of the citizens and has the will to contribute to the scientific, educational, social and economic development within its area of competence around the world.

VHIR offers vacancy/vacant position for a post-doc researcher within the Unit/Group Cardiovascular Diseases (Research line: Aging in Cardiomyocytes: the role of advanced glycation-end products (AGEs) in mitochondria). More information about our group can be found here →

<http://www.vhir.org/portal1/grup-equip.asp?t=malalties-cardiovasculares&s=recerca&contentid=186805>

JOB DESCRIPTION

Education and qualifications:

Applicants must hold a PhD in Biology/Biochemistry (or an equivalent scientific degree), be highly motivated, independent and senior enough to organise the work of technicians and biological or medical doctoral students and integrate themselves into a team.

Required:

- Excellent, competitive CV with an outstanding background in cell and molecular biology.
- Fluent spoken English

Experience and knowledge:

Required:

- Proven experience in pathophysiological research, specifically oriented to mitochondrial physiology and aging (imaging techniques (confocal and electron microscopy), cell calcium kinetics, ELISA, blue native electrophoresis, general biochemistry techniques)
- Cardiovascular-oriented
- Willingness to develop new technologies

Main responsibilities and duties:

- Differential isolation of mitochondrial subpopulations in human and murine myocardium for in vivo biochemical and functional studies (oximetry, absorbance, luminescence, fluorescence).
- Molecular interaction of intracellular proteins by Proximity Ligation Assay and FRET.
- Cell transfection and protein overexpression/silencing.
- Biochemical and imaging studies on mitochondria cristae morphology and mitochondrial ATP synthase dimerization.
- Differential quantification of advanced glycation end-products (AGEs) in cardiomyocytes

Labour conditions:

- Position: post-doc
- Gross annual salary: 25.122 € - Contract length: The position is initially limited to December 31, 2018, but prolongation is possible (after evaluation).
- Starting: June 2018

HOW TO APPLY

Applicants should submit a full Curriculum Vitae and a cover letter with the reference post-doc invest lab cardiology disease to the following email addresses: mteresa.fernandez@vhir.org and seleccio@vhir.org