



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.



HR EXCELLENCE IN RESEARCH

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**).

**VHIR embraces Equality and Diversity. As reflected in our values we work toward ensuring inclusion and equal opportunity in recruitment, hiring, training, and management for all staff within the organization, regardless of gender, civil status, family status, sexual orientation, religion, age, disability or race.**

## Postdoctoral Researcher Cardiovascular Diseases Research Group

VHIR offers vacancy/vacant position for a Postdoctoral Researcher within the Cardiovascular Diseases Research group.

More information about our group can be found here: <http://www.vhir.org/portal1/grup-equip.asp?t=malalties-cardiovasculars&s=recerca&contentid=186805>

### JOB DESCRIPTION

#### Education and qualifications:

##### Required:

- Post-doc in area of health science
- A Master's degree in translational Medicine and a minimum of 3 years' laboratory experience are required.
- High level of written and spoken English.

#### Experience and knowledge:

##### Required:

- Previous specialization in basic research projects in the field of Cardiology. The following knowledge is required:
- Consolidated experience in the techniques of generating models of heart failure by myocardial infarction, aortic constriction, and subcutaneous pump in mice.
- Previous experience in exercise models in mice.
- Experience in the management, genotyping and maintenance of transgenic colonies.
- Previous experience in the isolation of myocardiocytes and fibroblasts from murine hearts.



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- Previous experience in cultures with established cell lines (HL1 and H9c2) and primary cultures of cardiac myocytes and fibroblasts.
- Knowledge of intracellular calcium dynamics studies by confocal microscopy.
- It will also be valued:
- Knowledge of statistical concepts and management of specific programs (Graph Pad, SPSS, Expression Suite).

### Main responsibilities and duties:

- Maintaining a colony of transgenic mice already initiated, performing the genotypes and choosing the crosses.
- Making several models on this colony, including myocardial infarction, aortic constriction, subcutaneous pump and exercise.
- Performing post-mortem studies, including: molecular biology (RNA and protein extraction, RT-PCR, WB), IF, histological cut analysis, isolation of myocytes and fibroblasts with Langendorff system, culture generation, intracellular calcium studies by confocal microscopy.
- Collecting research data and analyze results with a minimal level of supervision.
- Elaborating abstracts for presentations in congresses, and scientific articles, with a minimal level of supervision.

### Labour conditions:

- Full-time position: 40h
- Starting date: 01 July .
- Gross annual salary: 24.786,00
- Contract: temporary



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## What can we offer?

- Incorporation to Vall d'Hebron Research Institute (VHIR), a public sector institution that promotes and develops the biomedical research, innovation and teaching at Vall d'Hebron University Hospital (HUVH), the biggest hospital of Barcelona and the largest of Catalan Institute of Health (ICS).
- A scientific environment of excellence, highly dynamic, where high-end biomedical projects are continuously developed.
- Continuous learning and a wide range of responsibilities within a stimulating work environment.
- Personal training opportunities.
- Flexible working hours.
- 23 days of holidays + 9 personal days.
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more).



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## How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference "Postdoc" to the following email addresses: [mteresa.fernandez@vhir.org](mailto:mteresa.fernandez@vhir.org) and [seleccio@vhir.org](mailto:seleccio@vhir.org)