



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

### Medical Molecular Imaging Research Group

This job is available at the Medical Molecular Imaging Research Group led by Dr J Raul Herance at Vall d'Hebron Research Institute in the Vall d'Hebron University Hospital Campus (<http://en.vhir.org/portal1/grup-presentacio2.asp?s=recerca&contentid=187155&idrefer=187156>)

Immuno-PET agents for imaging brain tumours has encountered significant challenges due to the difficulty for their transport across the BBB and subsequent diffusion across the brain tissue. In this project, our goal is to confront this challenge thanks to the use of nanotechnology. We will take advantage of recent findings in the development of functionalized nanocarriers to overcome the BBB to design, develop and validate *in vitro* and *in vivo* new immuno-PET radiotracers for the molecular diagnosis of brain tumours. Non-invasive molecular diagnosis is fundamental for the correct management of brain tumours patients. The identification of such proteins will facilitate diagnosis, provide information about prognosis and identify therapeutic targets without the need to perform surgical procedures to obtain tumour specimens

The applicant will work on the development of new immune-PET agents and will test various nanotechnological systems to cross the BBB with the aim of refining the system using humanized preclinical models.

### JOB DESCRIPTION

#### Education and qualifications:

#### Required:

- PhD in Biology, Biotechnology, Pharmacy or Chemistry
- Knowledge of PET and SPECT techniques
- License to work in ionizing radiation facilities (supervisor or operator)
- Fluency in English



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### Desired:

- License for animal handling (FELASA or similar)
- Fluency in Spanish or Catalan

### Experience and knowledge:

### Required:

- Experience on radiopharmaceuticals synthesis (at least 1 year)

### Desired:

- Experience on rodents work (preclinical studies)
- Experience in molecular biology and immunohistology techniques (e.g. Western blotting, IHC, ELISA, cell culture, etc.).

### Main responsibilities and duties:

- Set-up different labelling procedures of PET radiopharmaceuticals
- Carry out preclinical studies based on PET
- Image analysis
- Collaborate with different consortium partners
- Presentation of results in meetings and congresses

### Labour conditions:

- Full-time position: 40h/week.
- Starting date: ASAP
- Gross annual salary: Remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale
- 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).

## How to apply:

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