



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**).

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# Postdoctoral position to develop radiopharmaceuticals targeting glioblastoma

## Medical Molecular Imaging Research Group

Immuno-PET agents for imaging brain tumors have encountered significant challenges due to the difficulties associated with their transport across the BBB and subsequent diffusion within the extracellular space of the brain. In this project, our goal is to confront this challenge effectively through the use of a nanotechnology strategy. We will take advantage of recent findings in the development of functionalized nanocarriers able to circumvent the BBB, to design, develop and validate *in vitro* and *in vivo* new immuno-PET radiotracers for the molecular diagnosis of brain tumors.

Non-invasive molecular diagnostics are fundamental to improve the management and treatment of brain tumors. The development of these molecular imaging tools will facilitate diagnosis, provide information about prognosis and identify therapeutic targets without the need to perform surgical procedures to obtain tissue biopsies.

### JOB DESCRIPTION

The applicant will work on the development and *in vitro/in vivo* evaluation of new immuno-PET agents in relevant preclinical models of human glioblastoma (non-humanized and humanized).

### Education and qualifications:

#### Required:

- PhD in Biology, Biotechnology, Pharmacy or Chemistry

#### Desired:

- License to work in ionizing radiation facilities (supervisor or operator)
- License for animal handling (FELASA or similar)



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- Fluency in English

### Experience and knowledge:

#### Required:

- Experience on radiopharmaceuticals labelling
- Experience on imaging studies

#### Desired:

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

### Main responsibilities and duties:

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

### Labour conditions:

- Full-time/Part-time position: 40h/week.
- Starting date: As soon as possible
- Gross annual salary: Remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale
- Contract: Permanent linked to project



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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 "DIAGBI postdoctoral position." to the following email addresses: [raul.herance@vhir.org](mailto:raul.herance@vhir.org) and [seleccio@vhir.org](mailto:seleccio@vhir.org)