



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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PhD position in immune cell tracking using PET for cancer immunotherapy management

Medical Molecular Imaging Research Group

JOB DESCRIPTION

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 a job opportunity for a PhD student at the Medical Molecular Imaging Research Group. The PhD candidate will be involved in an exciting project aimed at developing new positron emission tomography imaging agents to track the dynamics of different immune cell subsets in an effort to improve the management of cancer immunotherapies. This is a highly interdisciplinary research project that will allow the candidate to participate in all stages of radiotracer development, from synthesis to preclinical validation in murine oncological models as well as medical image analysis. In addition to her/his individual scientific project, the candidate will benefit from further continuing education, which will include appropriate training and access to transferable skills courses as well as active participation in workshops and conferences.

Education and qualifications:

Required:

- BSc/MSc in any of these life science disciplines: Biology, Chemistry, Pharmacy or similar



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- Fluency in Spanish and/or English (professional level)
- Methodical, organized and with good teamwork skills

Desired:

- Accreditation to work with animals (FELASA or similar)
- Familiarized with histological and molecular biology techniques
- Familiarized with cell culture and flow cytometry techniques
- Familiarized with radionuclide imaging techniques (PET or SPECT)
- Certification for working in radioactive facilities (operator or supervisor)
- Good academic and master thesis scores (at least 7.5 of average)
- Knowledge of statistical methodologies

Experience and knowledge:

Required:

- Skilled in molecular biology and histological techniques (e.g. Western blotting, ELISA, immunohistochemistry, Immunofluorescence, etc.)
- Experienced in adherent mammalian cell culture
- Experienced in flow cytometry



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Desired:

- Experience with animal handling, mainly rodents
- Prior experience in radiochemistry or handling of radioactive materials
- Knowledge of mouse models of human cancer

Main responsibilities and duties:

- Modification and radiolabeling of antibodies for molecular imaging applications
- Optimization and maintenance of cell cultures
- Design and execution of *in vitro* assays
- Design and execution of preclinical imaging experiments
- Characterization of *ex vivo* tissues via histological and molecular biology methods
- Medical image analysis
- Writing up scientific manuscripts for publication
- Presenting at national/international conferences

Labour conditions:

- Full-time position: 40h/week.
- Starting date: October 2023
- 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.
- Individual training opportunities.
- Flexible working hours.
- 23 days of holidays + 9 personal days.
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more)
- Corporate Benefits: platform through which you can obtain significant discounts on travel, culture, technology, gastronomy, sports... among many others.
- Healthy Offering: choose from a variety of wellbeing focused activities to be the healthiest you.

How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference "PhD_PET_VHIR" to the following email addresses: raul.herance@vhir.org and seleccio@vhir.org

Deadline to apply: 30-09-2023