Postdoctoral Researcher

Medical Molecular Imaging Research Group

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 postdoctoral student in the Medical Molecular Imaging Research Group led by Dr. J Raul Herance. The postdoctoral candidate will participate in the nTRACK - EU project that focuses on the development of nanoparticle-based contrast agents for stem cell tracking in cell therapy used for skeletal muscle regeneration. Other goals of the project are the development of novel in vivo imaging protocols to assess cell viability and skeletal muscle recovery using medical imaging approaches with a clear translational purpose for further clinical trials. Finally, all the data will be used to obtain precision algorithms and computational models to determine cell viability, muscle recovery, etc. This work will be carried out in collaboration with some consortia of the project.

More information about the project can be found here → https://www.n-track.eu/

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.**

JOB DESCRIPTION

Education and qualifications:

Required:

- PhD in Biology, Biotechnology, Pharmacy, Chemistry, or similar.

Experience and knowledge:

Required:

- Experience on animal work, involving mainly rodents. It is mandatory that the candidate holds a license for animal handling (FELASA or similar)

Preferred:
- Knowledge of statistical methodologies
- Methodical, organized and with good teamwork skills

- Good English level
- Familiarized with histological and molecular biology techniques
- Familiarized with imaging techniques (CT, MRI, PET or SPECT)
- Certification for working in radioactive facilities (operator or supervisor)

Main responsibilities and duties:

The candidate will actively participate in autonomous preclinical studies based on 1) development of nanoparticle-based contrast agents for cell monitoring and in vivo protocols for assessments of cell viability of cell therapies using imaging techniques (MRI, PET and CT), molecular biology and immunohistology techniques, and 2) testing of stem cell therapies in animal models. The candidate will also participate in the writing of scientific manuscripts for publication.

Labour conditions:

- Full-time position (40 h/w)
- Temporary contract: 1 year (with possibility for extension)
- Start: October
- Gross annual salary: starting from 27.500 (will vary depending on profile and experience)

How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference CV´s *Posdoctoral - Medical Molecular Imaging* to the following email addresses: raul.herance@vhir.org and seleccio@vhir.org.

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