Position
Postdoctoral position to develop radiopharmaceuticals targeting glioblastoma

Research project

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.

Job position description
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.

Background of the candidate
PhD in Biology, Biotechnology, Pharmacy or Chemistry with experience on radiopharmaceuticals synthesis. It is mandatory that the candidate holds a licence to work in ionizing radiation facilities (supervisor or operator). On the other hand, experience in preclinical work and an animal handling licence (FELASA or similar) will be a plus in the HR selection process, as well as experience in molecular biology and histology techniques (e.g. Western blotting, IHC, ELISA, cell culture, etc.).

Job conditions
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)
Hours: full –time (40 h/week).
Gross annual salary: To be determined in function of the candidate's experience.
Contract length: 1 year (with possibility for extension)

How to apply

Applicants should submit a full Curriculum Vitae and a cover letter summarizing relevant experience to **raul.herance@vhir.org.** Two recommendation letters are required.