



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 Researcher

### Group of Childhood Cancer & Blood Disorders. Laboratory of Neural Tumors.

Childhood cancer is the first cause of death due to disease in children. New drugs are needed to increase cure rates and reduce long-term sequelae of survivors. RNA-based therapies against cancer has proved to hold great potential since they are able to target all the transcriptome (coding and non-coding mRNAs), expanding significantly the number of potential therapeutic targets. The most therapeutically-advanced molecules in RNA-based therapies are microRNA (miRNA), endogenous non-coding small RNA that interfere with the translation and stability of RNA (coding and non-coding) in a sequence-specific manner.

In the recent years, it has become evident that nanomedicine, through the conjugation of RNA biomolecules to nanostructured materials, enables the conversion of this biomolecules into drugs with high efficacy. Although a wide range of nanocarriers are in development phases, there is still not a standard formulation for the clinical administration of RNA-based therapies.

The aim of this project is to move forward the pharmaceutical development new nanomedicines until the doors of the preclinical regulatory phases.

#### JOB DESCRIPTION

Participation in the project “RNA-based nanomedicine for cancer therapy”

#### Education and qualifications:

##### Required:

- Bachelor's Degree in Sciences (Biology, Biochemistry, Pharmacy, Biotechnology, etc..) and Master.
- PhD in molecular biology or similar.
- Specific/Additional training in animal experimentation.
- Good command of Spanish & English.
- Two years or more of postdoctoral experience



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## Experience and knowledge:

### Desired:

- High motivation for a research career.
- Previous experience in nanomedicine.
- Previous experience in research in rare disease and/or childhood diseases.
- Experience in project management (e.g. grant applications, grant periodic reports, etc...)
- Experience in Leadership roles (e.g. publications as first or last author, direction of master thesis, direction of thesis, etc.)

## Main responsibilities and duties:

- Perform the experimental activities of the project including in vitro and in vivo experiments.
- Project management (e.g. writing scientific and economic reports, coordination among the participating centers)
- Prepare presentation of results and communication/dissemination material.
- Participation in laboratory outreach activities.

## Labour conditions:

- Full-time/Part-time position: 40h/week.
- Starting date: January 2022.
- Gross annual salary: 28,000-30,000 €/year. Salary ranges are consistent with our Collective Agreement pay scale.

## 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).



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- 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 “**Oferta Postdoc**” to the following email addresses: [miguel.segura@vhir.org](mailto:miguel.segura@vhir.org) and [seleccio@vhir.org](mailto:seleccio@vhir.org)



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