



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 in **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**).

**VHIR embraces Equality and Diversity. As reflected in our values we work toward ensuring inclusion and equal opportunity in recruitment, hiring, training, and management for all staff within the organization, regardless of gender, civil status, family status, sexual orientation, nationality, religion, age, disability or race.**

## Full-time Researcher - virus detection

### Diagnostic Nanotools Research Group

Diagnostic Nanotools is a research group based at Vall d'Hebron Hospital (Barcelona, Spain). Our aim is to develop and validate biosensors, fast assays and novel detection strategies with diagnostic purposes (<http://www.vhir.org/gr/dina>; [https://www.researchgate.net/profile/Eva\\_Baldrich](https://www.researchgate.net/profile/Eva_Baldrich)).

WE ARE SEARCHING for a Full-Time Postdoctoral Researcher to join a Consolidate project funded by La Caixa Foundation. The candidate will participate in the development and transfer of a new method for the detection and surveillance of viruses (see more information here:

<https://pubs.acs.org/doi/abs/10.1021/acssensors.0c01830>.

### JOB DESCRIPTION

#### Education and qualifications:

- PhD in Nanotechnology, Biology, Biochemistry, Chemistry, Biomedical Engineering or similar disciplines.
- Publications as the first author and stages abroad will be a plus.
- English competence (written and spoken).
- Hard-worker, dynamic and organized, technically skilled, with high autonomy level and multidisciplinary profile.
- Interest in applied research and technology transfer.

#### Experience and knowledge:

Candidates with experience in at least two of the following fields will be prioritized.

- Experience in the optimization and performance of particle-based bioassays.
- Familiarity with different strategies for surface modification with biomolecules.
- Familiarity with glycomics and polysaccharide modification (chemically and/or enzymatically).
- Hemagglutination and hemagglutination inhibition assays for virus detection.



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### Main responsibilities and duties:

- Our Research Group has produced a first prototype for detection of several influenza viruses, which displays a visual readout in about 5 min. The candidate will participate in the production of an enhanced product by improving surface bioengineering to achieve better sensitivity, decreased production cost, and detection versatility.
- The candidate will also participate in system formatting for control of SARS-CoV-2, rubella and pneumococcus viruses.

### Labour conditions:

- Full-time position: 40h/week.
- Starting date: immediate.
- Gross annual salary: 23.000,00 – 25.000,00 euros depending on candidate experience

### 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.



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- 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, a cover letter with the reference DINA-ViruDet, and the contact data of two references to the following email addresses before May 15th 2022: [eva.baldrich@vhir.org](mailto:eva.baldrich@vhir.org) and [seleccio@vhir.org](mailto:seleccio@vhir.org) .