



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

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Senior PostDoc – Development of malaria point-of-care testing device

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 novel detection strategies with diagnostic purposes <https://vhir.vallhebron.com/es/investigacion/diagnostic-nanotools-dina> ; https://www.researchgate.net/profile/Eva_Baldrich .

WE ARE SEARCHING for a Full-Time Senior Postdoctoral Researcher to join a Caixa Research Health project funded by La Caixa Foundation. The candidate will lead the development of fast assays and electrochemical biosensors for malaria point-of-care testing.

JOB DESCRIPTION

Education and qualifications:

Required:

- PhD in Nanotechnology, Biotechnology, Chemistry, Electrochemistry, Biomedical Engineering or similar disciplines.
- More than 8 years of postdoctoral experience.
- Strong publication record in high impact journals.
- Spanish and English competence (written and spoken).
- Technically skilled, organized, creative, with high autonomy level and multidisciplinary profile.
- Interest in applied research and technology transfer.



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Experience and knowledge:

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

- Development and validation of bioassays using magnetic micro/nano-beads.
- Familiarity with different strategies for chemical modification of surfaces with biomolecules.
- Electrochemical immunosensors and/or aptasensors.
- Nanoparticle surface bioengineering and use as non-enzymatic tag.
- Paper-based diagnostic devices and paper microfluidics.

Main responsibilities and duties:

- Our Group has produced a low-cost technology for malaria quantitative point-of-care diagnosis (*Biosens Bioelectron*, 2020, 150:111925, <https://doi.org/10.1016/j.bios.2019.111925>; *Biosens Bioelectron*, 2022, 215:114513, <https://doi.org/10.1016/j.bios.2022.114513>; *Biosens Bioelectron*, 2024, 246:115875, <https://doi.org/10.1016/j.bios.2023.115875>). The candidate will lead the production of an enhanced product, in collaboration with researchers of the Spanish National Centre of Microelectronics (IMB-CNM, CSIC) and Institute for Bioengineering of Catalonia (IBEC). Work will include optimisation of single-step magnetic bead bioassays, implementation of synthetic receptors (aptamers) and tags (enzyme mimetic nanoparticles), development of paper devices for assay easy handling, and implementation of electrochemical detection to produce fast and simple electrochemical biosensors. Work will also include validation in real samples (locally and in an African setting).

Labour conditions:

- Full-time position: 40h/week until 31st December 2026
- Starting date: immediate.
- Gross annual salary: 23.000,00-28.500,00 euros /// (Remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale)
- Contract: *permanent linked to project*



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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 motivation letter with the reference "(Ref. DINA-CaixaHealth-PD)." to the following email addresses: eva.baldrich@vhir.org and seleccio@vhir.org

Deadline to apply: 05-01-2024

The Fundació Hospital Universitari Vall d'Hebron-Institut de Recerca - "VHIR"-, with NIF G-60594009, address in Barcelona -08035- Passeig Vall d'Hebron 119-129, Edifici Mediterrània, 2a planta and telephone (34) 934 89 30 00 is the data controller for the processing of your personal data. The data will be processed exclusively for the purpose of managing your participation in the selection process, as well as, if necessary, managing your participation in other selection processes.



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Unless you give your informed consent to keep your personal data for future selection processes, in the event that the selection process is completed and you are not the person selected, your personal data will be deleted and blocked in order to be able to respond to any possible liabilities that may arise.

The legal basis of the processing is the execution of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract.

The recipient of the data will be the VHIR's Professional Development personnel and no transfer of personal data is foreseen, except for the fulfilment of legal obligations applicable to the data controller. International data transfers are not foreseen. No automated decisions will be taken, including profiling. In general, personal data will not be communicated to third parties, except for legal obligations in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 (GDPR) to persons who are entitled to request them. You have the rights of access, rectification, deletion, portability, limitation and opposition that can be exercised at any time through the email dpd@ticsalutsocial.cat or lopd@vhir.org. In compliance with Regulation (EU) 2016/679, the VHIR has appointed a data protection officer, whose contact details are dpd@ticsalutsocial.cat. You can also lodge a complaint with the competent Data Protection Authority by contacting www.apdcat.cat or www.aepd.es.



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