



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.**

## Postdoctoral Researcher

### Chronic Fatigue Working 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 Vall d'Hebron University Hospital. 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 vacancy/vacant position for a Ph.D. research within the Chronic Fatigue working team. Further information may be found at: [http://en.vhir.org/web\\_vhir/portal1/area.asp?s=recerca&contentid=1356](http://en.vhir.org/web_vhir/portal1/area.asp?s=recerca&contentid=1356)

#### JOB DESCRIPTION

##### Education and qualifications:

###### Required:

- Candidate must hold a Ph.D. degree in biochemistry, molecular biology, and biomedicine sciences.
- Good communication skills and fluency in English spoken and written.

##### Experience and knowledge:

###### Experience required:

- Have experience in relevant applied research in ME/CFS during the last five years.
- Handling human blood specimens. Experience with isolation of specific types of biofluids and blood cells highly desirable.
- Experience with performing of ELISA on plate readers, including chemiluminescence, fluorescence and absorbance-based assays. Cell in-vitro assays also will be required.
- Experience in EV/exosomes isolation and characterization of miRNA and cytokines content.
- Knowledge in – omics technologies and integrative analysis based on bioinformatics.
- Management of research lab and analysis of clinical data. Graphical representation of data using software (i.e. GraphPad Prism, JMP, MATLAB or Excel).
- Familiarity with writing of international projects and journal articles. Any other form of scientific writing experience is also beneficial.

###### Desired:

- Experience in flow cytometry techniques, western blotting, qRT-PCR and ELISA assays.

- Experience in fluorescence microscopy.
- Experience in histological sample preparations.
- Strong sense of responsibility, initiative, self-motivation and social skills as key personal abilities.
- Ability to work independently.
- Author in publications on ME/CFS research.

#### **Main responsibilities and duties:**

- Lead the research project: experimental design, run the experimental design, data analysis, writing of technical reports and oral research communications.
- Review scientific and technical reports related to the research project.
- Report to supervisors the progress of the project.
- Participation in tasks related with the research laboratory.
- Collaboration with other researchers in all tasks necessary to achieve the working team objectives.
- Develop different protocols associated to the project.
- Drafting of protocols associated with the different techniques that will be developed during the project.
- Support the research group in basic laboratory routines.
- Participation in the H2020 research project on diagnostic biosensor tools entitled “Magnetic sensor for EV-mediated diagnostics and therapy monitoring” (MagVex study).

#### **Duties include also:**

- Independently conduct a portion of the research projects.
- Make recommendations on experimental design and/or research direction to principal investigator.
- Independently conduct complex (lab and/or field) experiments to gather data for a portion of a major research project.
- Interpret and analyze results, often where few guidelines exist, and make modifications to existing procedures and protocols.
- Develop new research protocols where appropriate protocols are not described in the literature or where modification or adaptation of standard procedures and protocols is required.
- Participate in multidisciplinary teams across different faculties or schools.
- Perform ongoing literature review to remain current with new procedures and related research; apply to ongoing research and development of new protocols.
- Contribute substantively to the preparation of papers for publication, especially in the results section, and to publication of findings.
- Present ongoing work to colleagues and/or academic conferences.

- Oversee supply and equipment budget under supervision of principal investigator or business manager.
- Work with health and safety department to ensure lab complies with regulations and all required trainings.
- Supervise (either formally or informally) staff or students as needed, including oversight and direction on techniques, as well as consultation on project work.
- Serve as a technical resource for other research staff.
- Oversee the daily activities of the laboratory including lab maintenance; maintain lab stock, manage chemical inventory and safety records, and provide general lab support as needed.
- May assist with purchasing laboratory equipment.

**Skills:**

- Communication skills in meetings, formal presentations, informal discussions and written documentation.
- Flexibility and adaptability to a changing environment.
- Time management skills: plan, organize and prioritize.
- Teamwork skills.
- Skills to work autonomously and with initiative.

**Labour conditions:**

- Full-time position: (40h/week)
- Starting date: immediately
- Length of the contract: until end of the project
- Gross annual salary: 24.250 EUR

**How to apply:**

Applicants should submit a full CV and a cover letter with the reference "PostDoc-Fatigue" to the following email addresses: [jalegre@vhebron.net](mailto:jalegre@vhebron.net) and [seleccio@vhir.org](mailto:seleccio@vhir.org). Application deadline will be on April 26, 2019.