



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.**

## Predoctoral Researcher Position Neurovascular Research Lab (Amyloid Group)

The Amyloid Group of the VHIR Neurovascular Research Laboratory seeks to recruit candidates who are interested in applying to the VHIR internal predoctoral call or the Catalan official competitive grants (AGAUR), which will be announced soon.

The pre-doctoral researcher will work in the project: **“Involvement of vascular dysfunction in Alzheimer disease”**

Existing evidence propose that vascular dysfunction contribute to cognitive impairment in Alzheimer disease (AD). Disruption of the blood brain barrier, decreased cerebral blood flow, the failure of perivascular drainage pathways and a vascular inflammatory context may consequently induce aberrant protein deposition and neuronal injury. Our group at the Neurovascular Research Lab (VHIR) studies the link between neurodegeneration and neurovascular dysfunction through in vivo and in vitro methodologies, including the use of transgenic AD mouse models, BBB cell culture models, as well as human brain and plasma/CSF samples. Our aim is to explore the vascular contribution to the AD pathophysiology in order to provide new drug targets and diagnostic approaches for AD and other pathologies associated with cerebral  $\beta$ -amyloid deposition.

More info about the group can be found at: <http://www.lin-bcn.com/amyloid/>

### JOB DESCRIPTION

#### Education and qualifications:

##### Required:

- Degree in health sciences (biology, pharmacy, biochemistry, veterinary medicine, etc.).
- Official Master in health sciences.
- Having a high academic record (> 8.0)

#### Experience and knowledge:

##### Required:

- Degree or Grade in Sciences.
- Good English skills

**Desired:**

- Accredited certificate of Animal Research Experimentation.
- Previous experience in a neuroscience lab.

**Main responsibilities and duties:**

- The predoctoral researcher will carry out experiments based on in vitro and in vivo techniques, using human and mouse samples. The candidate will also collaborate on the design of the experiments, statistical analysis of the data obtained and writing manuscripts.

**Labour conditions:**

- Full-time position (40h/week).
- Starting date: 1st September 2017.
- Length of the contract: until end of the project.
- Gross annual salary: Depending on the specific call, a minimum of 16.490,46 € the first and second year, 17.668,35 € the third year and 22.085,44 the fourth year.

**What can we offer?**

- Skillful and social colleagues in a dynamic environment.
- Challenging tasks and a wide range of responsibilities.
- Personal training opportunities.
- Flexible working hours.
- 23 days of holidays + 9 personal days.
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more).
- Annual teambuilding events.

Applicants should submit a full Curriculum Vitae and a cover letter with the reference "Predoctoral researcher - Amyloid" to the following email addresses: [mar.hernandez.guillamon@vhir.org](mailto:mar.hernandez.guillamon@vhir.org) and [seleccio@vhir.org](mailto:seleccio@vhir.org).