

The Vall d'Hebron Institute of Oncology (VHIO) Seeks a “Predoctoral Researcher”

Reference: 2024-78-01

Application deadline: 22/12/2024

Number of vacancies: 1

Job description:

About us

The Cancer Cell Cycle Group led by Dr. Marcos Malumbres at Vall Hebron Institute of Oncology (VHIO) is growing, we are seeking enthusiastic predoctoral researcher.

Our lab focuses on the basic mechanisms that control cell differentiation and proliferation, and their implications in pathology. We are interested in deciphering the mechanisms that drive tumour cell proliferation, with a patient-focused perspective, and the therapeutic opportunities of inhibiting the activity of critical cell cycle regulators in cancer.

Find more about our research here: <https://malumbreslab.org/> and <https://vhio.net/pf/cancer-cell-cycle-group/>

Job description:

- Develop a project exploring CDKs as new targeted therapies in cancer
- Design and develop experiments using genome engineering technologies in *in vitro* and *in vivo* models of breast, colorectal, lung and endometrial cancer
- Analyse experimental data and interpret findings to understand the mechanisms underlying resistance to treatment with CDK inhibitors
- Interact closely with both wet lab and computational scientists from the group
- Present research findings at conferences and contribute to scientific publications

Professional experience:

Must Have

- Previous experience and advanced skills in some of the following: culture of mammalian cells and organoids, generation of patient-derived models, liquid biopsy and circulating tumor cells,
- Experience with genomics, transcriptomics and methylomics in cancer

Requirements:

- University degree in Biology, Genetics, Biochemistry, Biotechnology, or a related discipline
- Official Master's degree in Biomedical Sciences or a related field

- Good command of the English language
- Advanced MS Office and Prism experience

Competences

- Rigor, time management, autonomy and teamwork
- Strong analytical, interpersonal, communication skills and planning capacity
- Curiosity and critical thinking

Additional information:

What we offer:

- The possibility of developing your professional career in a competitive environment.
- To be part of a centre that is constantly developing, pursuing excellence in research and collaborating with leading teams.
- We offer and promote a diverse and inclusive environment, and welcome all people equally, regardless of age, disability, gender, nationality, race, religion or sexual orientation.
- We care about our environment and understand the importance of sustainability. We have the GreenVhio program, which you can be a part of.

Working conditions:

- Salary will be estimated according to profile and experience.
- Flexible working hours and measures to reconcile work, family, personal life and gender equality, as stipulated in the VHIO agreement.
- Flexible remuneration programme (including restaurant vouchers, medical insurance, transport and childcare vouchers).
- 23 days of holiday and 5 days of free disposal.
- Fully subsidized Catalan, Spanish, or English courses.

About VHIO:

Under the leadership of Josep Tabernero, the Vall d'Hebron Institute of Oncology (VHIO), has established itself as a comprehensive cancer center of proven excellence internationally. It is also thanks to VHIO's optimal organizational structure based on a purely multidisciplinary and translational model that VHIO talents continue to anticipate and tackle the many unresolved questions in combatting this multifaceted and heterogeneous disease.

Located within the Vall d'Hebron Barcelona Hospital Campus, our researchers closely collaborate and interact with Vall d'Hebron physician-scientists. Translational science and clinical research are therefore tightly connected which promotes superb interaction and teamwork which, in turn, accelerates the bench-bedside-bed cycle of knowledge. This privileged environment affords VHIO direct access to patients as well as the entire



spectrum of oncology professionals who care for them, and a second-to-none appreciation of how cancer science can translate into more powerful, targeted treatments and better practice for the care of patients.

VHIO's pioneering model and programs, coupled with its belief in combining strengths through cross-border collaborations, continue to spur advances in reversing cancer resistance, halting metastatic spread, and more effectively treating even the most undruggable tumor types.

VHIO's translation toward precision oncology: <http://www.vhio.net>