

The Vall d'Hebron Institute of Oncology (VHIO) Seeks a “Specialized Laboratory Technician at Cancer Genomics Laboratory”

Reference: Ref. 2024-015-01

Application deadline: until position filled.

Number of vacancies: 1

Job description:

VHIO's Cancer Genomics Group serves as a Core Technology laboratory. In addition, we are dedicated to translational research as well as novel genomic test development. We provide cutting-edge applications in cancer genomics through state-of-the-art technologies and the development of novel, fully validated tests that are used in the clinical research setting (Prescreening Program). The lab is equipped with an n-Counter (Nanostring) platform, two digital PCR platforms (BEAMing, Sysmex and ddPCR, BIO-RAD) and four NextGen Sequencers; MiSeq, NextSeq, HiSeq2500 and NovaSeq 6000, Illumina.

We provide cutting-edge applications in cancer genomics through state-of-the-art technologies and, importantly, the development of novel, fully validated tests. Our novel genomic tests provide an important added value to our activity as a facility and research group, and to VHIO as a whole, enabling routine patient testing in the clinical research setting (Prescreening Program) as well as in translational research.

VHIO's Prescreening Program is a transversal program, nucleated around the activity of two VHIO groups – the Molecular Oncology (led by Paolo Nuciforo) and Cancer Genomics labs, performing routine molecular profiling in over 1500 patients per year. Patients included in the program are candidates for enrollment in Phase I clinical trials carried out at the Research Unit for Molecular Therapy of Cancer (UITM) – “la Caixa”, led by Elena Garralda. Patients' suitability for inclusion in any given clinical trial is decided taking into account their respective genomic or pathologic profile.

The Cancer Genomics Lab has developed and implemented several tests during the last 10 years that have been in use in the Prescreening Program routine. Tests for DNA profiling in tissue are NGS-based: an Amplicon-seq hotspot panel to sequence 67 genes (developed back in 2012) and a custom 435-gene hybrid capture panel (VHIO-300, developed in 2018), and an nCounter (Nanostring) panel for RNA gene fusion detection (with the capacity of detecting over 100 recurrent gene fusions) and perform gene expression profiling.



HR EXCELLENCE IN RESEARCH

Vall d'Hebron Institute Oncology (VHIO) endorses the Requirements and Principles of the European Charter for Researchers, the Code of Conduct for the Recruitment of Researchers promoted by the European Commission and follows Equal Opportunities policies.

On 10th April 2018 VHIO was awarded the “HR Excellence in Research” logo. Our Institute was consequently granted permission to use the HR Excellence in Research Award logo as demonstration of its stimulating and favourable work environment in line with the Charter & Code.

As a reflection of our dedication to excellence and quality in the services we provide, both NGS-DNA based tests have been accredited according to the UNE-EN ISO 15189 quality system, that specifies requirements for quality and competence in medical laboratories. In recognition to our track, VHIO-300's UNE-EN ISO 15189 accreditation was awarded in its flexible version, allowing us to include new analytes directly in the accredited test (following a standard operating procedure).

In 2022, we completed the technical transfer of the Food and Drug Administration (FDA)-approved Guardant360[®] CDx liquid biopsy test for comprehensive genomic profiling. Our lab is the first cancer research center in Europe to have a laboratory equipped with this cutting-edge platform.

We are seeking a motivated laboratory technician to work in wetlab tasks: nucleic acid extraction of fresh/frozen, plasma and FFPE samples, library preparation for NGS (Illumina-based), ddPCR, qPCR and RT-qPCR, etc. as well as assisting in the development of new applications in NGS for molecular profiling of cancer patients.

Requirements:

- Experience: At least 4 years of relevant laboratory experience in molecular biology and/or genomics techniques.
- Studies: Ph.D, B.Sc or M.Sc will be considered an asset, although is not mandatory.
- Languages: fluency in English is required.
- Computer literacy is essential.

Application:

Applicants should send a full Curriculum Vitae and a cover letter to selecciorrh@vhio.net including the reference "Ref. 2024-015-01" in the subject line of the email. Please also attach a letter of recommendation to your application.

About VHIO:

Under the leadership of Josep Taberero, 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.



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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>



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