Research Group Leaders in Computational Biology - Neurogenomics Research Centre

The **Research Centre for Neurogenomics** is seeking outstanding **early career researchers** to establish their independent groups in computational biology applied to brain disorders. They will be active researchers carrying out high-quality, internationally competitive research and contributors to the international scientific community. The HT Research Centre for Neurogenomics focuses on the dynamics of brain disorders, both neurodevelopmental and neurodegenerative, with a strong emphasis on human experimental models and straddling multiple scales of analysis from single cell resolution to organismal function. The Centre offers an outstanding research environment, including a transformative facility for reprogramming and brain organoids automation, state of the art Genomics and Light Microscopy infrastructures along with a HT-wide architecture of high performance computing (HPC) attuned to the needs of contemporary computational biology and data science. A strategic priority is represented by candidates with experience and an active research program in single-cell multiomics integration and multilayered analysis of datasets derived from large cohorts of brain disorders. Newly appointed Group Leaders will be offered a generous start-up package and core funding. The Research Group Leaders will be responsible for developing their independent research within the Centre, as well as contributing to the collegial development of the HT research programme.

Key tasks and responsibilities

The Group Leader will:

• develop a world-class line of research in data science/bioinformatics in the field of human neurobiology and brain disorders;

• lead their own research group;

• foster a diverse and nurturing research environment through leading and mentoring members of their teams;

• build effective links and collaborations within other HT research investigators, harnessing the unique combination of experimental and computational groups;

• develop and foster links between HT and other national and international research organizations;

• contribute to the preparation of Centre reports to be reviewed by an external expert board;

• actively participate in initiatives that pursue improvement of all aspects of HT;

• actively participate in the co-organization and implementation of activities that will promote the image of HT in the international neurogenomics community, such as symposia and workshops;

• contribute to the establishment of a collaborative and open scientific environment by actively participating in meetings and seminar series internal to HT. This will foster synergies between the groups and propagation of knowledge;

- raise third-party funding;

- participate and helping to designing HT Core Facilities.

Key requirements

The selected candidates will have an outstanding record in computational biology applied to brain disorders, spanning data-based analytics to model-based analysis, in particular for the development of new approaches to one or more of the following: single cell multi-omic deconvolution, machine and deep learning, integrative data analysis. The Centre for Neurogenomics will work closely with other HT Research Centres to achieve synergies and reach joint goals. The selected candidates will possess scientific vision, leadership skills and be competitive in acquiring extramural grants. Basic requirements for the position include a PhD in a relevant science subject, and a proven record of scientific research output in the field of computational neuroscience. Excellent organisational skills and a fluent command of English are essential.

Application Instructions

Please apply online sending a CV, a motivation letter, a project description and providing contacts of four potential referees.

The project description should be a maximum of 8 pages long and describe both current and future research plans in the group in the context of HT.

Questions concerning the role and any queries regarding the terms and conditions should be sent to the Head of the HT Neurogenomics Research Centre, Giuseppe Testa at giuseppe.testa@fht.org

Please apply only through the dedicated area below. (**APPLY NOW**)

(Please use Google Chrome or Firefox (not Safari) to send in your application. Once your application has been received, you will receive a confirmation email. If you do not receive the confirmation email please contact us at helpdeskHR@fht.org)

Additional Information

Group leaders in the Centre for Neurogenomics will be based in Milan, recently named the city with the best quality of life in Italy.

(https://lab24.ilsole24ore.com/qualita-della-vita/)

HT offers a highly collaborative, international and diverse work environment. The working language is English. HT will foster top quality, interdisciplinary research by promoting a

vibrant environment consisting of independent research groups attracting outstanding graduate students and postdoctoral fellows with access to cutting-edge Core Facilities.

HT is an inclusive, equal opportunity employer offering attractive conditions and benefits appropriate to a leading, internationally competitive research organization. Researchers coming to Italy for the first time, or returning after residing abroad, benefit from very attractive income tax benefits. HT seeks to promote a collegial and family-friendly atmosphere. The remuneration package comprises a competitive salary, a comprehensive pension scheme, medical and other social benefits, as well as financial support for relocation and installation, including the family.

The contract is to be intended as Fixed-Term.