
PhD Student at the IOR - Institute of Oncology Research in Bellinzona, Switzerland

Position: PhD STUDENT IN CANCER BIOINFORMATICS IN BELLINZONA, SWITZERLAND

The Lymphoma Genomics Group, headed by Professor **Francesco Bertoni** at the Institute of Oncology Research (IOR), seeks a PhD student to work on transcriptome regulation in lymphomas. The Lymphoma Genomics Group has strong expertise in studying genomic and epigenetic alterations and novel drug development in lymphoid tumors. The candidate must be highly motivated and interested in cancer genomics and bioinformatics.

The candidate is expected to use state-of-the-art bioinformatics tools to analyze next-generation sequencing studies to study transcriptome and epigenome changes in experimental and clinical lymphoma samples, including single-cell sequencing studies. Work will be done under the supervision of the group's senior bioinformatician and within the IOR Bioinformatics Core Unit.

The PhD student will be enrolled in the International PhD Program in Cancer Biology and Oncology of the Università della Svizzera italiana (USI) to which IOR is affiliated. IOR is linked with the Oncology Institute of Southern Switzerland (IOSI), one of the world lymphoma referral centers, and an institutional member of the Swiss Institute of Bioinformatics (SIB).

Requirements: MSc/PhD in computer science, bioinformatics, computational biology, biology or related disciplines. The ideal candidate must have experience analyzing next-generation sequencing data (e.g., RNA-seq, CHIP-seq, whole exome sequencing), mathematical and statistical knowledge, fluency in R or Matlab, and knowledge of programming/scripting language. Excellent knowledge of English and good interpersonal and communication skills are required. Basic knowledge in molecular and cell biology, molecular and experimental oncology, and related experimental techniques is highly desirable.

The IOR, affiliated with USI, is in a new high-tech research building that hosts more than 20 research groups. It has state-of-the-art labs and facilities. Together with the Institute for Research in Biomedicine (IRB), the IOR is a member of Bios+, a non-profit association aiming to promote, support, and coordinate its members' scientific research and teaching activities (www.biosplus.ch). IOR offers a multicultural and thriving environment, daily occasions of interaction with world leaders in the fields of cancer, basic immunology, and cancer immunology, an exciting research project, and multiple occasions of interaction with world leaders in the fields of cancer, basic immunology, and cancer immunology (see Ph.D. lecture series at [PhD-program](#)).

Interested? Please submit your application in a single PDF-File including the following documents at HR@ior.usi.ch.

Reference in the email object: **PhD-FB2024**

- Detailed curriculum vitae with publications list
- List of three references (including their email addresses)
- Statement on their research interests (maximal one page)

Salary will be in line with the guidelines of the Swiss National Science Foundation. A full benefits package will be available, including, e.g., gym and car fleet discounts.

For scientific and position-related questions, please contact: francesco.bertoni@ior.usi.ch

For administrative questions, please contact HR@ior.usi.ch

Applications sent to different contacts, in other formats, or after the deadline will not be considered.

Deadline: June 30, 2024

Starting date: as soon as possible

More information about the Institute is available at www.ior.usi.ch.

