
Open position

Junior Bioinformatician at the Lymphoma Genomic Laboratory

Institute of Oncology Research (IOR)

Bellinzona, Switzerland

www.ior.usi.ch

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The Institute of Oncology Research (IOR) in Bellinzona, Switzerland, is a rapidly evolving, leading center for basic and translational research in oncology in Europe.

IOR is affiliated to the Università della Svizzera italiana (USI) and its Faculty of Biomedical Sciences, as well as to other leading Swiss Universities and Research Centers.

IOR is partner of the Oncology Institute of Southern Switzerland (IOSI), one of the world referral centers for lymphomas.

IOR is institutional member of the Swiss Institute of Bioinformatics (SIB).

IOR is member of Bios+ a non-profit association aiming to promote, support and coordinate the scientific research and teaching activities of its members - www.biosplus.ch.

IOR provides excellent core facilities, highly competitive salary and supported structures, including automated microscopy systems, FACS scan and sorting facility, next generation sequence and animal facilities. The Institute is located in an innovative, well-equipped and scientifically stimulating surrounding, in a new research building.

Aim of our research is to decode the mechanisms of cancer pathogenesis and develop innovative and rational-based avenues to fight cancer. Currently, the Institute hosts seven research groups working on lymphomas, hematopoietic malignancies, prostate and breast cancer.

We are looking for a motivated and enthusiastic

Junior Bioinformatician

interested in working in a very active environment at competitive projects in the group of **Lymphoma Genomics directed by Prof. Francesco Bertoni**.

Job Description

The successful applicant will join a young, competitive group with a very good publication track. The Lymphoma Genomics Group has a very strong expertise on studying genomic and epigenetic alterations and on novel drugs development in lymphoid tumors. The candidate will work with their senior bioinformaticians on data analysis. The candidate must be highly motivated with a personal interest on cancer genomics.



The candidate is expected to use state-of-the-art bioinformatics tools to assist in the analysis of genome-wide biological datasets such as those generated in microarray and next-generation sequencing studies of the cancer transcriptome and epigenome in experimental and clinical samples.

Candidate's qualifications

MSc/PhD in bioinformatics, computational biology or related discipline.

Excellent knowledge of English, good interpersonal and communication skills are required.

The ideal candidate must possess bioinformatic experience in:

1. Analysis of targeted resequencing, Whole Exon/Genome Sequencing and RNA-Seq experiments. Knowledge of epigenomics data analysis is a plus (ATAC-seq, ChIP-seq), functional analysis, clinical response and survival data
2. Develop bioinformatics tools to compile and analyze "big data", including longitudinal assessment of combined mutational profiles, gene expression and phosphoproteomics
3. Knowledge of basic machine learning for the integration of multi-omics data, assessment of validity and prediction accuracy of tools developed
4. Good knowledge of R and knowledge of programming/scripting language (e.g., Perl, Ruby, Java, Python)
5. Problem-solving to overcome technical challenges (including basic bash operations)
6. Ability to deliver comprehensive and clear visualization of the data analysed
7. Familiarity with bioinformatic databases (e.g., NCBI, UCSC, EMBL) and software packages (e.g., BLAST, BLAT, Limma, IGV, GATK, and STAR) are strongly advisable.

Employment

Salary will be commensurate with qualification and experience.

Initial appointment: 1 year - 50%.

Application

We are looking forward to receiving your comprehensive digital application in English in a single PDF-File.

Application will include curriculum vitae (with training, working experience and publications), three reference letters, and a statement of research interest (maximum one page).

Please send application to: [**humanresources@ior.usi.ch**](mailto:humanresources@ior.usi.ch)

Reference in the object: FB_BioInf_2021

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

Deadline:

November 15th, 2021

Starting date:

As soon as possible

More information about the Institute and Prof. Francesco Bertoni is available at following link: www.ior.usi.ch