

Job description	
Job title	Bioinformatician position for the participation in HIV and COVID-19 related projects integrating multi-omics analyses
Job code	CB_Bioinfo_01_102024
Full/part time	Full time
Field	HIV, COVID-19 and other viral infections
Direct supervisor	Christian Brander and Marta Ruiz-Riol
Experience	Completed PhD
Languages	English (Spanish and Catalan recommended)
Starting date	As early as possible
Education and field of expertise	Bioinformatician with experience in data science in the biology area.
Summary	The IrsiCaixa T-cell Immunology and Vaccines group has an opening for a Bioinformatician who will participate in the investigation of HIV and COVID-19 infections and their impact on the host immune response. The main activities will be embedded in the European EPIVINF project, which aims to identify the epigenetics, transcriptomics, and proteomics cascades triggered by these viral infections and define potential biomarkers predictive of HIV and long COVID-19 disease severity and identification of new therapeutic targets.
Job duties	Omics data analysis of epigenetic (DNA-methylomes, WG-EM-seq), transcriptomics (RNAseq and scRNAseq), TCRs repertoire, and proteomics will be the major tasks. We welcome an individual who will be able to apply state-of-the-art algorithms for the identification of epigenetic signatures, biomarkers, and therapeutic targets in peripheral blood and cerebrospinal fluid, including the cell type annotation. The candidate will also be involved in the discussions on experimental set up to ensure adequate data are being generated for further downstream analyses
Candidate profile and qualifications	<ul style="list-style-type: none"> • Previous experience in -omics data analysis (e.g. DNA-methylation, TCR sequencing, scRNAseq, RNAseq, among others): limma, BSSeq, Seurat, scran, ...) • Strong programming skills in R and/or Python (tidyverse, arrow, pandas, ...) • Used to work with version control systems (Git & Github) • Previous experience working on Linux and HPC (High Performance Computing) clusters and familiarity with shell scripting (e.g Bash) • Good organizational skills and excellent attention to detail • Good communication skills and ability to work in a team, including national and international partners and their respective bioinformatics cores
What we offer	<ul style="list-style-type: none"> • A dynamic and flexible group that leads and participates in several competitive international projects funded by the European Union and the US NIH

	<ul style="list-style-type: none"> • Ample opportunities to collaborate with a wide range of laboratories and organizations across Europe, Africa and the Americas • Flexible working hours, including 6 days per month for remote working • On-campus bioinformatics meetings and integration in the bioinformatician networks at IrsiCaixa and the wider Hospital Germans Trias I Pujol campus
Application deadline	November 29, 2024
Required documents	<ul style="list-style-type: none"> • Academic certificate corresponding to the title of PhD • Curriculum vitae • References to academic publications • Motivation letter • Contact information for references
Selection process	<ol style="list-style-type: none"> 1. Pre-selection based on CV, academic record, and motivation letter 2. Interviews: Short-listed candidates will be interviewed in person or by online interview 3. Position will be offered to the successful candidate 1 week after completion of all interviews
Application process	<ul style="list-style-type: none"> • Through the IrsiCaixa website • By sending an email to jobs@irsicaixa.es. Applications that do not include the job code (CB_Bioinfo_01_102024) in the subject line of the email will be disregarded.
Where to find us	<p>IrsiCaixa Germans Trias i Pujol Hospital 2nd floor, Maternity building. Ctra. del Canyet, s/n. 08916 Badalona, Barcelona (+34) 93 465 63 74</p>