

Position Summary

Research Environment: Founded in 1996, the Consorci Institut d'Investigacions Biomediques August Pi i Sunyer (IDIBAPS) is a premier public research center dedicated to translational research in the field of biomedicine. Its mission is to combine clinical research of proven quality with high-level basic research. IDIBAPS is co-located with the School of Medicine (University of Barcelona) and the Hospital Clinic of Barcelona. This confluence of teaching hospital and research center has created a rich and powerful synergy and facilitating the transference of IDIBAPS research to clinicians, patients, and new health professionals in training. In 2012, IDIBAPS published a total of 1,026 original articles in international journals, with a global impact factor of 5,334.00. Close to 60% of them were in the first quartile of impact in their field. An integral part of IDIBAPS is the IBD Unit of Hospital Clinic Barcelona. The IBD Unit is among the world-renowned leaders in the research and treatment of inflammatory bowel diseases. The IBD Unit currently conducts research projects and clinical protocols in Crohn's disease and ulcerative colitis, as well as a very active HSCT program in CD, and has a track record of first-class publications and collaboration with academia and industry.

Post Title: Bioinformatician

Required Qualifications / Experience: Degree in science and master in bioinformatics. Experience analyzing high-throughput datasets and diverse omics datasets from different platforms would be valued.

Description of project and role:

We are seeking a highly motivated individual with a background in bioinformatics to join the laboratory of the IBD Unit-IDIBAPS Barcelona. The specific goal of our group is to study and test innovative strategies to cure or significantly improve IBD. The successful applicant will analyze the transcriptome and microbiome of patients suffering from IBD and will have to integrate data with relevant clinical parameters. The goal is to better understand and characterize the interplay between bacteria and host's transcriptomics in patients suffering from IBD. Data from microbial analysis will be integrated with transcriptional signatures of the intestinal mucosa, genetic data and other potential datasets. The successful candidate will work in collaboration with other members of the group and support them in the mining, integration and visualization of multiple-omics data sets, including microbiomics (16S rRNA seq), transcriptomics (microarray, RNAseq) and clinical metadata to advance our understanding of the biologic mechanisms driving inflammation and immunopathology in IBD. The appointee will work as part of a larger well-established team including other bioinformaticians and will have the opportunity to contribute to established international collaborations. As a member of the IBD Unit-IDIBAPS, the successful candidate will have the opportunity to develop new analytical approaches and will receive specialist training as required.

Preferred Additional Qualifications / Experience:

- Background and working knowledge in algorithms, scientific computing, machine learning or statistics.
- Experience with analysis of NGS datasets (RNA-seq, ChIP-seq, DNA-seq).
- Experience with R/bioconductor, C/C++, Java, Perl, python, PLINK and the Unix (Linux) environment.
- Excellent interpersonal, verbal and written communication skills.

The candidate should be highly motivated, creative, and collaborative.

Post Duration: 2-year contract (salary negotiable, depending on experience); possibility of renewal.

To Apply:

Please submit a 1-page cover letter, C.V. and 2 letters of reference by e-mail to:

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