Universitat Pompeu Fabra

UPFellows Cofund Programme

IN ALL AREAS OF EXPERIMENTAL AND HEALTH SCIENCES

Universitat Pompeu Fabra, in Barcelona, Spain, seeks outstanding scientists who have demonstrated (or have strong potential for) innovation and leadership in research, within the framework of the UPFellows programme, to integrate them at different levels in its departments, which cover a broad range of topics. In the Department of Experimental and Health Sciences (DCEXS) we specially encourage collaborative interaction and synergies with existing research programmes, while looking for novel expertise not currently covered by our faculty. Special areas of interest within this call are:

Title: Signaling and Gene Expression in Immune Cells

The postdoctoral researcher will be integrated in the laboratory of Drs Cristina López-Rodríguez and Jose Aramburu. The major interest of this group is identifying novel transcriptional mechanisms in control of pro- and anti-inflammatory responses, and also analyze their impact in processes such as the defense against pathogens, antitumor immune therapy, and antigen presentation in graft rejection.


For more information, please follow the links:

http://www.upf.edu/cexs/faculty/facult/lopezrod.html
http://www.upf.edu/cexs/faculty/facult/aramburu.html
http://www.upf.edu/recerca/grups/gr-proteines.html

Candidates with experience in signalling and gene expression in immune cells and in current gene expression approaches such as chromatin immunoprecipitation will have a big opportunity to broaden their scientific knowledge.

General Inquiries: upfellows@upf.edu
Specific to this topic: Regina López, regina.lopez@upf.edu

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Title: Genomics

A postdoctoral position in genomics is available to work within on one of several labs working in different areas of genomics, ranging from statistical genomics for genome-phenome analysis to the development of new methodologies and the analysis of next-generation sequencing data, including whole-genome and exome sequences, targeted resequencing of candidate regions and transcriptome by RNA-seq.
Research teams at the DCEXS have wide experience in the development and application of next-generation technologies, both related to basic and applied projects and especially in the field of medical genomics, with the most advanced genomics technologies and a large capacity of computer analysis available in house or through collaborations with major research centers. As to experimental techniques, we are implementing new approaches for studies requiring new protocols of sample preparation, with special focus on those with low quality or reduced amount of material and including, among others, applications related to single-cell sequencing, ancient DNA non-invasive analyses of endangered.

Candidates with a strong knowledge either in wet lab technologies and its bioinformatics applications or in statistical genomics for the analysis of quantitative trait loci and/or other associations between genomes and phenomes will have great opportunities to strengthen their scientific profile.

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Specific to this topic: Regina López, regina.lopez@upf.edu

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Title: Computational cancer genomics

The researcher will be integrated in a research group involved in the analysis of pan-cancer genomics data, including tumour genome and transcriptome sequencing data, focused particularly in the identification of driver mutations in non-coding regions. The selected postdoctoral researcher will join a team of international researchers based at the Barcelona Biomedical Research Park in Barcelona.

The group led by Nuria Lopez-Bigas is a strong interdisciplinary research team currently formed by 4 postdocs, 3 PhD students and 2 software engineers, with complementary expertise in biology, medicine, computational biology and software engineering. The research team has unique expertise in the integration, analysis and visualization of cancer genomics data. Recent achievements include: i) development of computational methods to identify cancer drivers, ii) the creation of IntOGen-mutations, a platform to identify and visualize cancer drivers across tumour types, ii) participation in the most important international consortia in cancer genomics (ICGC and TCGA).

Candidates with a PhD in bioinformatics, computer science, genomics, molecular biology or other relevant fields of biology and with research experience in computational genomics, cancer genomics, or a closely-related field will have a great opportunity to broaden their scientific knowledge.

General Inquiries: upfellows@upf.edu
Specific to this topic: Núria López, nuria.lopez@upf.edu

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**Title:** Biomedical Engineering

Candidates with a strong scientific-technical background in any of the areas of biomedical engineering, including complex systems, biodevices, cell-electronic interfaces, biopolymer development, scaffold structures for stem cell growth or organ repair are encouraged to join DCEXS to boost these new research lines.

**General Inquiries:** upfellows@upf.edu  
Specific to this topic: Regina López, regina.lopez@upf.edu

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Candidates to join the Department of Experimental and Health Sciences (DCEXS), University Pompeu Fabra, are expected to undertake transnational mobility (not having spent in Spain more than 1 year in the last 3 years immediately prior to the submission of the application), and to hold a PhD by 31\textsuperscript{st} May 2015. More years of experience will be considered an advantage.

The UPFellows programme is funded jointly by the Marie Curie COFUND program (7th Framework Program) and the UPF. The fellowships are awarded for a period of 3 years, with a competitive salary (47.300 €/yr) and an initial contribution to research costs.

Detailed information on the call can be found at [http://www.upf.edu/upfellows/](http://www.upf.edu/upfellows/) and general inquiries can be emailed at upfellows@upf.edu.

Applications will include:

- A full CV
- A statement of research interests and plans for the UPFellow period
- The names of three scholars who are willing to serve as references for the applicant
- An indication of which panel the applicant wishes to consider his/her application.

**Application deadline: 20\textsuperscript{th} April 2015**

**IT IS COMPULSORY TO APPLY ONLINE**

Please register and send your application through  
https://editorialexpress.com/hh/candidates/upf_fellows_2015_a78_login