

Pre-doctoral contract (FPI fellowship), Molecular Medicine Program, Immunology Unit, Universitat Pompeu Fabra, Barcelona



1. We are searching for a candidate to join our group for a doctoral thesis through a pre-doctoral FPI contract starting around March 2020. The selected person must have a master degree before October 2019 and will join the PhD Program in Biomedicine of Universitat Pompeu Fabra (<https://www.upf.edu/web/phd-biomedicine/presentation>).

A major interest of our group is to identify new mechanisms that control the capacity of immune cells to assemble complex gene expression programs that confer them effectiveness and adaptability against multiple threats to the organism. We study several processes, such as the communication between immune cells in the rejection of transplants, inflammatory defense against pathogens, and antitumor immunotherapy. For more information, see:

<https://www.upf.edu/web/biomed/entry/-/15818/adscricion/JOSE-ARAMBURU>

<https://www.upf.edu/web/biomed/entry/-/23934/adscricion/CRISTINA-LOPEZ-RODRIGUEZ>

Leading publications: Buxadé et al., 2012 *J Exp Med*; Ortells et al., 2012 *Nucleic Acids Res*; Berga-Bolaños et al., 2013 *Proc Natl Acad Sci USA*; Aramburu et al., 2014 *Science Signaling*; Tellechea et al., 2018 *J Immunol*; Buxadé et al., 2018 *J Exp Med*; Aramburu and López-Rodríguez, 2019 *Frontiers Immunol*.

The selected person will develop the Doctoral Thesis acquiring experience in innovative techniques of analysis of gene expression and modifications of chromatin, as well as in mechanisms of regulation of immune responses and mouse models of human pathologies.

2. Requisites. Qualification: Candidates must have a Degree (or Bachelor's degree) in Biology, Biochemistry, Biotechnology, Pharmacy or similar. Candidates in their Master Degree are encouraged to apply. **Average scores:** Approximately 2.5 or above (scale 1-4), or 8.4 or above (scale 1-10) for the Bachelor Degree (Grado). **Language:** fluency in English, written and spoken.

It will be a plus to have a clear motivation for a career in biomedical researcher, as well as the ability to confront and solve scientific problems. Prior experience (master thesis level or end-of-degree work project) in immunology, gene expression analysis techniques (such as RT-qPCR and ChIP), or work with mouse models will also be considered positively. It will also be appreciated to have one or two contact persons (telephone and e-mail address) who can provide references.

3. Interested candidates, please send your requests to Dr. Cristina López-Rodríguez or Dr. Jose Aramburu: cristina.lopez-rodriguez@upf.edu, or jose.aramburu@upf.edu, please include your CV and the complete academic record.

Candidates will be evaluated continuously and this call will be closed before December 2019.