



**R1 PreDoctoral candidate for applying to UIC/AGAUR/MINECO PhD contracts. Topic Genetics, RNA Biology and Iron Metabolism- Reference 2020-MS01. One position.**

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**Research Description**

The *Universitat Internacional de Catalunya* (UIC) is a private, non-profit university that aims to provide a service to society through the implementation of teaching and research activities aimed at professional training and scientific, cultural and human education of the students.

Currently, the university covers eight faculties in addition to the Doctoral School. The academic programs offered by UIC Barcelona include a total of 20 undergraduate programs and more than 80 official master's degrees and post-graduate courses.

Of its two campuses, the Sant Cugat campus houses the Faculty of Medicine and Health Sciences and the Faculty of Dentistry. It is located within the premises of the General Hospital of Catalonia. Practical experience, particularly on this campus, forms the basis of successful learning. This campus also houses the University Institute of Patients, the Institute of Superior Studies of Bioethics and the Bioengineering Institute of Technology; what makes it as an ideal environment that promulgates the success in education and research.

The Biomedicine Laboratory in the Department of Basic Sciences, where the laboratory of Dr. Mayka Sanchez is located, has an area of approximately 340 m<sup>2</sup> that holds the research groups of the Department of Basic Sciences of the Faculty of Medicine and Health Sciences. It is a fully equipped space for UIC Barcelona research groups to work on the different lines they develop. It counts with a microscopy room, tissue culture rooms, flow cytometer and equipment for PCR, qPCR and other molecular biology techniques.

<https://www.uic.es/en/health/research-group-iron-metabolism-regulation-and-diseases>

Dra Mayka Sanchez's group, **Iron Metabolism: Regulation and Diseases** of the UIC, focuses on the study of hereditary haematological diseases and iron metabolism diseases with important scientific contributions in this field at the basic as well as the translational level (Luscieti et al., Blood 2017; Engert, et al Haematol 2016; Joshi R, et al., Mol Genet Gen Med 2015, FalcoL, Hum. Mutat 2014, Athiyarath R et al. Brit J Haematol 2013, Falco L et al., Haematol 2013 ; Luscieti S, et al., OJRD 2013).

We are looking for a highly motivated pre-doctoral researcher who is interested in applying to several fellowships (AGAUR FI, FU MINECO and UIC predoctoral program) to joining a dynamic laboratory that applies state-of-the-art technology in Genetics and Iron Metabolism. We are located at the Basic Science department at the *Universitat Internacional de Catalunya* (UIC) same building as Hospital General de Catalunya, Sant Cugat del Vallés, Barcelona (Train FGC: Hospital General).

We work in **Human Genetics** and translational medicine in the field of RNA Biology and Haematology supported by national and international grants including grant RTI2018-101735 B-100 (MCIU/AEI/FEDER, UE) A-IRON: Advances in new molecular pathways and novel diseases in iron homeostasis. In addition, we have support from the APU and ADISCON patients' association to develop new diagnostics and treatments in Congenital Dyserythropoietic Anaemia, including **Gene Therapy**. Patient samples are provided by established partnerships with international clinical groups and national hospitals. We also have contacts with companies (BLOODGENETICS and WHOLE GENIX). Dr. M Sanchez is the co-founder of the spin-off BLOODGENETICS SL ([www.bloodgenetics.com](http://www.bloodgenetics.com))

**Compulsory and minimum Requirements- PLEASE do not apply if you do not fulfil the minimum requisites**

We are seeking candidates who have:

- A Master in Biology, Genetics, Translational Research **obtained in July 2017 or later.**
- Good academic marks (above minimum of 7,5 over 10 in the Bachelor studies) and high motivation for research, include in your CV your academic average marks over 10.
- At least 1 years of work experience in RNA Biology or Human Genetics in haematological or genetic rare diseases including iron metabolism diseases and related fields.
- Good English level (internal seminars are in English) Excellent interpersonal skills and ability to work with other team members.

- Organized, hard-working person and proactive, self-motivated and enthusiastic.

### **Other Requirements**

Following requisites will be a plus

- Proven experience in Molecular biology, Tissue culture, biochemistry, working with mouse/zebrafish, NGS, WES, WGS, CRISPR-Cas9 genome editing, Flow cytometry, MACS and FACS cell sorting and virus vector construction for gene therapy
- Publications in peer reviewed scientific journals.

### **Main Responsibilities**

The selected person will work on the project RTI2018-101735 B-100 (MCIU/AEI/FEDER, UE) A-IRON: Advances in new molecular pathways and novel diseases in iron homeostasis to obtain his/her PhD title.

### **What we offer**

- Salary depend on the fellowship/contract to be obtained
- To work in an excellent environment with support to assist to courses and conferences.
- 3-year contract.
- Starting January 2021.

### **Evaluation process**

- The posts may remain vacant if the minimum requirements are not met.
- Selected candidates will be contacted for a personal interview.

### **For more information**

For more information, please visit:

<https://www.uic.es/en/health/research-group-iron-metabolism-regulation-and-diseases>

### **Deadline for applications**

The call will be open until 19/06/2020

### **How to apply**

Interested applicants should send their CV, cover letter and email address of three referees able to assess the scientific potential and previous performance to Dr. Mayka Sanchez [msanchezfe@uic.es](mailto:msanchezfe@uic.es) with copy to Dr. Veroncia Venturi [vventuri@uic.es](mailto:vventuri@uic.es)

**PLEASE MENTION the REFERENCE Reference 2020-MS01-PREDOC-UIC** in the subject of the mail or your application may not reach the right person.

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