



JOB OFFER

Date: 04/07/2022

PRINCIPAL INVESTIGATOR: Nuria Martínez-Martín

SCIENTIFIC PROGRAM: Tissue and organ homeostasis

JOB OFFER: Postdoctoral Position

PROJECT TITLE: *Deciphering how B cell metabolism shapes Germinal Centre shutdown and its relation with immune system disorders*

PROJECT DESCRIPTION:

Deciphering molecular mechanisms controlling Germinal Centre (GC) initiation has attracted the attention of immunologists in the last decade, aiming to understand the stepwise immune response and improve vaccination strategies. However, while a deficient GC initiation can lead to immunodeficiencies, an overactivation of GC can lead to GC-derived lymphomas or autoimmune diseases. Therefore, in addition to GC initiation, the processes leading to the GC reaction and termination of the cellular expansion are also of high scientific and clinical interest. However, the mechanisms for this GC shutdown have been disregarded until now. In our laboratory, we have preliminary results showing that a specific metabolic profile in B lymphocytes triggers the GC shutdown. We seek a highly motivated and talented candidate interested in developing a project focused on identifying the metabolic processes that trigger the GC shutdown. The candidate will have to analyze integrative 'omics', using mainly RNA-seq, ATAC-seq, metabolomics and proteomics sets of data generated in our laboratory or publicly available in different databases. We offer a postdoctoral fully funded position starting in December 2022 in an excellent and stimulating scientific environment in the CBMSO (Madrid). The salary will be commensurated with expertise and qualifications.

DURATION:

Three years

**REQUIREMENTS, EXPERIENCE AND
ACADEMIC QUALIFICATIONS:**

The candidate must hold a degree in experimental sciences or bioinformatics/computational/engineering. She/he must prove experience during the PhD in scripting languages such as R and implementing and applying pipelines/algorithms for bioinformatic analysis. Ideally, the candidate should have experience in analyzing RNASeq data and metabolomics. Additionally, experience in analyzing proteomics will be a plus. The candidate must have excellent interpersonal skills and the ability to work with others as a team player.

CONTACT:

nmartinez@cbm.csic.es

DEADLINE:

30/09/2022

OTHER INFORMATION:

Candidates should email an application form to Dr Nuria Martínez-Martín containing a CV and short cover letter describing their expertise and research interest.

WEB: www.cbm.uam.es/nmartinez