



# JOB OFFER

**PRINCIPAL INVESTIGATOR:** **María N. Navarro**

**SCIENTIFIC PROGRAM:** Interactions with the environment

**JOB OFFER:** **4 year PhD grant (FPI program)** funded by the Spanish Ministry of Science and Innovation (MICIN) and the State Research Agency (AEI, PID2022-141729OB-I00).

**PROJECT TITLE:** **Mitochondrial and metabolic interference in interleukin 23-related autoimmune pathologies (MITMEET23)**

## PROJECT DESCRIPTION:

Our lab is seeking for a highly motivated candidate to develop his/her PhD studies in the **fields of Immunology, Intracellular Signalling and Metabolism**. The axis formed by interleukin 23 and interleukin 17 (IL-23/IL-17) has emerged as a dangerous cell-cell communication hub in autoimmune and inflammatory pathologies such as psoriasis, inflammatory bowel diseases or multiple sclerosis. We propose a comprehensive study of how IL-23 signalling regulates mitochondrial and cellular metabolism, and **we expect to unravel new therapeutic strategies aimed to break the self-sustaining cycle of chronic inflammation in autoimmune diseases**. To address our research questions, we use a in vitro and in vivo techniques, including cutting-edge spectral flow cytometry, metabolic assays (Seahorse), quantitative proteomics and phosphoproteomics, single-cell RNAseq and murine models of autoimmune diseases.

## REQUIREMENTS, EXPERIENCE AND ACADEMIC QUALIFICATIONS:

Graduate in studies related to biomedical sciences and related areas. Applicant must have passed a minimum of 300 ECTS credits, and a 60 credits in Master studies. Academic record with an average grade over 8 (out of 10). Experience in in vivo mouse models, cell culture, immunology and molecular biology will be valued. Communication skills in English.

**CONTACT:** send an e-mail including CV, academic record and 1-2 reference letters from previous supervisors to [marian.navarro@cbm.csic.es](mailto:marian.navarro@cbm.csic.es)

**DEADLINE:** **September 20th, 2023**

## OTHER INFORMATION:

About the lab: <http://www.cbm.uam.es/mnavarro>. @mnnavarro\_lab.

About the CBMSO <http://www.cbm.uam.es>