



# JOB OFFER

Date: 07/09/2022

**PRINCIPAL INVESTIGATOR:** Carlos Estella/ Antonio Baonza

**SCIENTIFIC PROGRAM:** Tissue and organ homeostasis

**JOB OFFER:** PhD Candidate

## PROJECT TITLE:

**Gene regulatory network induced by DNA Damage and its coordination in different cellular contexts.**

## PROJECT DESCRIPTION:

Cells are exposed to multiple intrinsic and extrinsic insults that can damage the DNA and therefore the integrity of our genomic material. These lesions are the cause of oncogenic transformations and tumor progression. To limit genomic instability, cells have acquired the DNA damage response pathway (DDR) that triggers a set of cellular responses that include cell cycle control, DNA repair, and apoptosis. Central in the DDR pathway is the tumor suppressor transcriptional protein p53. The precise regulation and coordination of the different responses triggered by p53 is essential to maintain tissue homeostasis and to prevent tumor formation. One of the goals of this project is to define the gene regulatory network induced by DNA damage and the role of p53 in its coordination in different cellular contexts.

## DURATION:

Three years

## REQUIREMENTS, EXPERIENCE AND ACADEMIC QUALIFICATIONS:

Candidates should hold a Master's degree in Genetics, Biology, Biochemistry or related and a good academic record. Research experience adequate to the project such as genome-wide techniques (ChIP-seq, ATAC-seq, RNA-seq) and *Drosophila* genetics will be positively valued.

## CONTACT:

Carlos Estella [cestella@cbm.csic.com](mailto:cestella@cbm.csic.com) or Antonio Baonza [abaonza@cbm.csic.com](mailto:abaonza@cbm.csic.com)

## DEADLINE:

28/10/2022

## OTHER INFORMATION:

Applications including an updated CV, an academic record and short research interest should be addressed to Carlos Estella or Antonio Baonza.

Lab web page for Carlos Estella: <http://web4.cbm.uam.es/estella>

and Antonio Baonza: <https://www.cbm.uam.es/abaonza>