

# JOB OFFER

Date: 18/07/2024

**PRINCIPAL INVESTIGATOR:** Eduardo Balsa

**SCIENTIFIC PROGRAM:** Metabolic and signaling networks in disease

**JOB OFFER:** ERC-funded Postdoctoral position

**PROJECT TITLE:** Molecular and metabolic mechanisms underlying mitochondrial dysfunction

## PROJECT DESCRIPTION:

Mitochondria are unique and complex organelles that perform essential functions in many aspects of cell biology. Once considered to be mere sites of ATP generation, it is now evident that these organelles participate in a wide range of cellular processes including calcium homeostasis, apoptosis, redox balance or cell fate. Because of this multifaceted contribution of mitochondria to key biologic and metabolic pathways it is not surprising that mitochondrial dysfunction has been linked to many human disorders including neurodegeneration, cancer or aging. In this project, we aim to elucidate the molecular mechanisms whereby mitochondrial metabolism and dysfunction compromise cellular fitness and leads to organ failure in the context of human diseases. We are employing newly generated mouse models to study the impact of mitochondrial metabolism in neurodegenerative diseases and cancer development.

## DURATION:

18 months

## REQUIREMENTS, EXPERIENCE AND ACADEMIC QUALIFICATIONS:

The candidate must hold a PhD in biochemistry, biomedicine, or related fields. They should possess experience in at least one of the following areas: molecular biology, immunology, cancer metabolism, or neuroscience. Essential qualifications include hands-on experience working with animals, particularly in models related to neurodegeneration or cancer and metastasis. The candidate should be able to take the lead on the project, design and conduct high-quality experiments, prepare scientific reports, assist in team supervision, and contribute to ongoing research projects.

## CONTACT:

Interested applicants should submit a motivation letter, a CV, and 2 letters of reference from current/previous supervisors in one single pdf file to Eduardo Balsa (ebalsa@cbm.csic.es) indicating ERC-Postdoc position in the email subject

## DEADLINE:

01/09/2024