

JOB OFFER

Date: 22/01/2024

PRINCIPAL INVESTIGATOR: Catalina Ribas

SCIENTIFIC PROGRAM: Physiological and pathological processes / Metabolic and signaling networks in disease.

JOB OFFER: Looking for Juan de la Cierva postdoctoral candidates

PROJECT TITLE:

"Identification of new therapeutic targets in head and neck squamous cell carcinoma (HNSCC) through the modulation of Gq-GPCR signaling pathways "

PROJECT DESCRIPTION:

Our group aims to understand the molecular bases that allow transducing the mechanical stimuli imposed by the composition and organization of the tumor stroma (TEM) on the regulation of autophagy, a fundamental metabolic control pathway in most tumors, and which is especially relevant in oral tumors. Based on the importance of G protein-coupled receptors in cancer, and on the novel role of the Gαq protein as a central regulator of the autophagic process, recently described in the laboratory, the objective of the project will be focused on evaluating the importance of the GPCR-Gαq pathway in the regulation of the architecture of the stroma associated with tumors through CAFs (tumor-associated fibroblasts), as well as in its role as a regulator in the cross-modulation between the secretion of exosomes and the different pathways of autophagic flux, both fundamental mechanisms in tumor-stroma communication. By combining biochemical and exosome biology techniques, the use of high-resolution microscopy and different 2D and 3D migration/invasion systems, combined with animal models with altered Gαq expression, we will try to identify new targets and therapeutic strategies against to this type of tumors

DURATION:

2 years

REQUIREMENTS, EXPERIENCE AND ACADEMIC QUALIFICATIONS:

Previous experience in molecular and cellular biology and mouse models will be highly valued. Those interested should send, as soon as possible, their CV, a description of their research experience and, if possible, letters of reference.

CONTACT:

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DEADLINE:

The deadline to submit applications is from 1/17/2024 to 01/31/2024

OTHER INFORMATION:

More information about the call:

<https://www.aei.gob.es/convocatorias/buscador-convocatorias/ayudas-contratos-juan-cierva-2023>