

Call for Application

Call for applications : candidate profile

Type of employment

Post-Doctoral position

Research Project/ Missions/ Scientific Context

A post-doctoral research fellow position is open for 2-years, with possibility to be extended 3 years, in the group of Dr. S. Vasseur "Metabolism of pancreatic Cancer" at the Cancer Research Center of Marseille (CRCM) (<https://www.crcm-marseille.fr/en/teams/research-teams/juan-iovanna-2/>).

The goal of the project is to target the metabolic pathways, already identified, that contribute to chemoresistance of the Pancreatic Ductal AdenoCarcinoma (PDAC). We also aim to develop in vitro and in vivo experimental approaches to integrate the cross-talk between the microenvironment and tumor cells within the PDAC that drive the metabolic reprogramming involved in the response to chemotherapy. Three dimensions cell co-culture models (spheroids, organoids) from patients' PDAC samples will be used as well as PDAC mouse models of chemoresistance and sensitivity.

Missions

- To determine, elaborate the research objectives
- To plan, to realise *in vitro* and *in vivo* experiments based on the required expertise in the field of the research and on available datasets and experimental tools.
- To organize meetings
- To write reports and original publications

Associated activities

- Communications of data obtained : oral presentations (national, international symposium, meetings), internal, external seminars.
- Developing national, international collaborations to develop the research project with experts in the field.
- To participate in collective lab duties.

Knowledge

- Cell Biology
- Cancerology
- Tumor metabolism
- Molecular Biology

Skills

- Transcriptomic datasets analysis
- Cell co-culture 2D, 3D models, fonctional read-outs (cell proliferation, cell death, cell migration).
- Molecular Biology (gene targeting (Crispr/C9), Western blot, RTqPCR, etc...)
- IHC, IF
- Cell Sorting (FACS)
- Imaging

- In vivo experimentation on mouse models of carcinogenesis
- Oral presentations of project research
- Writing reports
- Statistic (Prism) and imaging (ImageJ) analysis softwares

Requirements

- Candidates should have proven track record of research accomplishments including first/co- author publication(s) in international peer-reviewed journal(s) in the field of cancerology.
- Strong ability in working in research groups and with collaborators
- Highly motivated and rigorous
- Autonomy

Experience

- No more than 3yrs post-PhD

Diploma(s)

- PhD in Biology, Certification in Animal Experimentation (Not mandatory).

Host Research Center

Institution

U1068

Name

CRCM (<https://www.crcm-marseille.fr/>)

Director

JP. Borg

Composition

INSERM/CNRS/AMU/IPC

Address

163 avenue de Luminy, Parc scientifique de Luminy, 13288 Marseille cedex 9

Team

« Metabolism of Pancreatic Cancer ». PI : Dr. S. Vasseur, PhD

Contract

Duration

2+1 yrs

Salary

2.900€/month (INSERM guidelines in regards with years of experience post-PhD)

Starting date

September 2023

To apply : Please provide i/ a motivation letter to explain why the candidate is interested in the project, ii/ a detailed CV, iii/ at least 2 referees letters of previous PIs to : sophie.vasseur@inserm.fr