

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