



**Modulation of fibrosis in pancreatic cancer by key players
of the tumor microenvironment**

Position: Postdoctoral Researcher (E13)

Fields of research: Molecular and Cellular Biology-Tumor Biology

Starting date: 01.11.2023

Research group of Prof. Véronique Orian-Rousseau

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Our group focuses on the regulation of cell signaling in inflammation and cancer. We are part of the Institute of Biological and Chemical Systems- Functional Molecular Systems (IBCS-FMS) at the Karlsruhe Institute of Technology, Germany. The aim of the project is to investigate signaling pathways active in the tumor microenvironment and impacting on pancreatic cancer. Pancreatic tumors are characterized by a desmoplastic stroma occupying up to 80% of the total tumor. This project will focus on the contribution of pancreatic stellate cells (PSCs) and more generally of cancer associated fibroblasts (CAFs) to the establishment of a desmoplastic microenvironment. In particular, the remodeling of the extracellular matrix and the immunoregulation of the tumor by PSCs/CAFs will be the focus. The candidate will apply a broad range of molecular, cell biology and immunological methods *in vivo* and *in vitro*. He/She is expected to manage the evaluation and the statistical analysis of the results as well as their publication in peer-reviewed journals and at (inter-) national conferences.

Your profile:

You hold a PhD degree and several years of professional experience with expertise in cellular and molecular biology. You are expected to have experience in flow cytometry as well as histology, immunology-oriented techniques and organoid cultures. A FELASA certificate is highly recommended. The candidate requires a high degree of independence and can drive projects in an organized manner. In addition, he/she should have the ability to work on inter- and intradisciplinary projects. He/She should show a high level of motivation, personal commitment, the ability to work in a team and the willingness to contribute to the supervision and guidance of master and PhD students. Excellent communication skills in spoken and written English are expected.

Please send a motivation letter, a complete CV and contact information of at least two referees to veronique.orian-rousseau@kit.edu. The position is available from november 2023. The duration of the contract is limited to 1 year at first. The contract duration can be extended for 2 additional years.

Link to official application: <https://www.pse.kit.edu/karriere/joboffer.php?id=144657&intern=true>.