

## **The Laboratory of Molecular Angiogenesis offers**

### **PhD student position on exosome/ extracellular vesicles research in tumoral environment**

4 years grant (2 years renewable), starting October 2019

Our centre, the GIGA research center is located at the University of Liege in Belgium and offers a stimulatory intellectual and collaborative environment and state-of the art facilities.

### **PROJECT DESCRIPTION**

**Extracellular vesicles (EV)** are small vesicles released by cells in the extracellular milieu that mediate cell-cell communication. EVs have been shown to contain RNA, DNA, lipid and proteins that define a specific repertoire of molecular cargo that are representative of their originating cells. In the context of cancer, EVs are potentially secreted by all cell types that compose in **tumor microenvironment (TME)**. Those vesicles thus represent a new source of regulators of tumor progression.

Our lab has a 10 year-expertise in EV research in angiogenesis related diseases such as cancer. With this new project we aim to unravel the complexity of the EV landscape in pancreas cancer. Our goal is to determine which and how some specific EV released by neoplastic cells as well as from stromal cells impact on tumorigenicity of pancreas cancer. To achieve this goal, we will first characterize the population of EV in a murine model of pancreatic ductal adenocarcinoma (PDAC). Based on their surface markers we will select specific EV populations and determine their role in pancreas cancer pathogenicity. Then, longitudinal studies will be performed to determine the evolution of the EV landscape during PDAC initiation and progression

### **SKILLS/ QUALIFICATIONS**

**We are seeking a highly motivated person with a strong interest in molecular biology. Master degree in molecular biology, biochemistry or biomedical sciences is required. Previous experience in classical molecular biology techniques would be an advantage (qRT-PCR, cell culture assays...) but is not required. Ability to work independently, good communication and enthusiastic personality are skills required to perform this research successfully.**

For application, send C.V., contact information for two references, and a brief motivation letter including a summary of research experience to: Ingrid Struman  
[i.struman@uliege.be](mailto:i.struman@uliege.be)