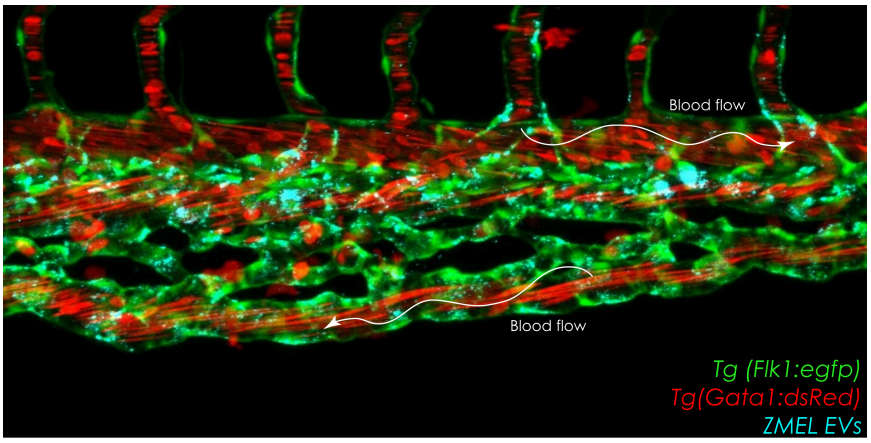
Post-doctoral position : 2-years

Extracellular vesicles & immune cells in metastasis onset



The **Goetz Lab** at INSERM U1109 is seeking a **talented postdoctoral scientist** with background in **Cell Biology, Cancer Biology or Immunology and interest in interdisciplinary research**. Our lab uses **advanced imaging techniques** (such as intravital microscopy, correlative electron microscopy and high-speed imaging) and new **zebrafish models** to study **tumor metastasis at multiple scales**. The lab is also actively investigating the contribution of **mechanical forces as well as extracellular vesicles in metastasis onset**. Our approach permits real-time imaging ranging from whole body tumour progression to single-cell/vesicle metastatic events. Doing so, we aim to understand how **metastasis occurs in relevant and controlled animal models** (see relevant publications). Our lab will shortly move into the **Center for Biomedical Research of Strasbourg**, a brand new institute that will be equipped with multiple platforms and facilities (mouse and zebrafish husbandry, imaging facility).

The successful candidate will join an **interdisciplinary team** made of cell and cancer biologists, molecular biologists and physicist. The candidate will be in charge of driving a project aiming to use the **zebrafish embryo for studying the impact of extracellular vesicles and immune cells in metastatic outgrowth**. The candidate will develop his project **independently, under the supervision of two researchers (V.Hyenne and Jacky G.Goetz).** The candidate is also expected to present his results in the form of publications and international conference presentations, and to participate to writing of grant applications.

For more information on the group's research see www.goetzlab.com
The position is full time with an initial **two-years contract** with strong prospects for renewal.

Relevant publications

Hyenne, et al. Studying the fate of tumor extracellular vesicles at high spatiotemporal resolution using the zebrafish embryo ***Developmental Cell*** 2019 Feb 25; 48: 554–572

Goetz JG. Tumor metastases go with the flow. ***Science*** 2018, 362(6418):999-1000

Follain et al. Hemodynamic forces tune the arrest, adhesion and extravasation of circulating tumor cells ***Developmental Cell*** 2018, Apr 9;45(1):33-52

Karreman et al. Intravital Correlative Microscopy: Imaging Life at the Nanoscale. ***Trends in Cell Biology*** 2016 • 26(11):848-863

About the candidate

Essential skills

- PhD in Cell Biology, Cancer Biology or Immunology
- 2 years of relevant experience
- Experience with confocal or multiphoton microscope systems
- Experience with zebrafish (although not essential, additional experience with mouse models would be an advantage)
- Ability to work independently and collaboratively with biologists and physicists in the team

Desired skills

- Zebrafish transgenesis
- Extracellular vesicles
- Zebrafish xenografts
- Mouse handling and cancer models
- Intravital microscopy
- Previous writing skills

How to Apply

All applications must be sent to Jacky G.Goetz (jacky.goetz@inserm.fr) or Vincent (hyenne@unistra.fr)
Please include the following in your application:

- A cover letter
- Your resume including at least 2 referees with supporting letters/contact details
- **deadline : 1st of september 2019**

Closing Date

This position will remain open until filled. We are reviewing applications as they are received, as such candidates are encouraged to submit their application as soon as possible.

Starting Date

Ideally, November 2019