

# **Master 1/2 internship in Cell Developmental Biology**

## **Team François Fagotto**

**Academic year 2020-2021**

### **Regulation of collective migration of embryonic tissues**

The general goal of our project is to understand the cellular mechanisms that confer tissues with specific adhesive and migratory tissue properties during embryonic development, focusing on the role of the actin cytoskeleton and its effect on cadherin adhesions.

We use gastrulation in *Xenopus* as model to study the transition from the ectoderm, a static tissue, to mesoderm, which is highly dynamic and moves actively inside the embryo (Kashkooli et al, *BioRxiv* 870444; doi: <https://doi.org/10.1101/870444>). This model is directly relevant for a wide range of processes involving changes in tissue dynamics, such as wound healing or cancer invasion.

We are looking for an outstanding candidate with strong background and interest in the field of Cell and Developmental Biology. His/her project will focus on studying the role specific regulators of the cytoskeleton using of molecular and cell biology approaches, in particular live microscopy.

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<http://www.crbm.cnrs.fr/team/morphogenesis/>