



Fiche proposition de stage - *Internship offers*

Offer for Master 1 or Master 2

Parcours concerné(s) : EpiGenBio, Cancer Biology, IDIL, Quantitative Biology

Intitulé du stage <i>Title</i>	Desciphering the mechanism of invasion through collective cell migration using an embryonic model.
Laboratoire d'accueil <i>Host laboratory</i>	CRBM, UMR5237
Nom du responsable <i>Name of the PI</i>	Prof. François Fagotto
Nom d'encadrant <i>Supervisor</i>	Prof. François Fagotto
Description (3 phrases) <i>Description</i> (3 sentences)	The team has discovered that the actomyosin cytoskeleton is key for the transition from a static to highly invasive tissue, using <i>Xenopus</i> mesoderm gastrulation as physiological model, with direct relevance for cancer metastasis. The internship project, which may be continued as PhD project, will aim at characterizing a specific myosin regulator essential for invasion, using various assays to study single cell and collective migration, subcellular localization and cellular phenotypes. The project will involve learning sophisticated techniques in Cell Developmental Biology, such as microinjection, microdissection, live imaging, including high resolution ultrafast confocal microscopy, image analysis (and possibly computer simulation) as well as basic molecular biology.
Durée prévue (2 à 6 mois) <i>Duration</i> (2 to 6 months)	4 months with possibility to extend to 6 months.
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