

Master program in Cancer Biology

Internship proposal form 2024

MASTER 1

MASTER 2

Title	Post-transcriptional regulation of metabolism in stem cells
Host laboratory	mRNA Regulation and Development Institut de Génétique Humaine (IGH)
Name of the PI	Martine Simonelig
Supervisor	Martine Simonelig/ Rima Naït-Saïdi
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Description (10 lines)	<p>Using <i>Drosophila</i> germline stem cells as a stem cell model, we have shown that glycolysis is increased in these cells through translational activation of glycolytic mRNAs. This regulation depends on small non-coding RNAs. The goal of this internship is to identify new RNA binding proteins involved together with small non-coding RNAs.</p> <p>Methods and approaches: <i>Drosophila</i> molecular genetics; RNA molecular biology; single molecule imaging: smFISH, immunostaining.</p> <p>Key-words: mRNA regulation; Metabolism; piRNAs; PIWI; Stem cells; Translational regulation</p>
Duration (2 to 6 months)	6 months