

Fiche proposition de stage - Internship offers

Offre pour / Offer for (you can make offers for both level, if the subjects are different, please use a new form)

Master 1 X Master 2

Parcours concerné(s) : EpiGenBio

Intitulé du stage Title	Functional analysis of RNA granules: example of <i>Drosophila</i> germ granules
Laboratoire d'accueil Host laboratory	mRNA regulation and Development Institute of Human Genetics
Nom du responsable Name of the PI	Martine Simonelig
Nom d'encadrant Supervisor	Anne Ramat
Description (3 phrases) <i>Description (3 sentences)</i>	 Membraneless condensates are thought to play a key role in organizing biological reactions within the cell. However, the relationships between the organization of condensates and their functions are poorly understood. RNA granules are a specific class of condensates. The project aims at analyzing RNA granules in the <i>Drosophila</i> germline, to decipher the links between organization and functions of membraneless condensates. The project involves innovative single molecule imaging approaches to record ongoing translation. Methods and approaches: <i>Drosophila</i> molecular genetics; CRISPR knock-in; RNA molecular biology; single molecule imaging: smFISH, SunTag; live imaging. Key-words: mRNA regulation; Phase separation; RNA granule; Translational regulation; Single molecule imaging
Durée prevue (2 à 6 mois) Duration (2 to 6 months)	6 months
E-mail	Martine.Simonelig@igh.cnrs.fr