







## Fiche proposition de stage - *Internship offers* 2025-26

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

- Master 2 (from end January)
- Master 1 (from mid January)

Intitulé du stage  Title  Laboratoire d'accueil  Host laboratory	Analyse biophysique et fonctionnelle de granules d'ARN: Exemple des granules germinaux chez la drosophile Biophysical and functional analysis of RNA granules: example of Drosophila germ granules  mRNA Reguation and Development Institut de Génétique Humaine (IGH)
Nom du responsable Name of the PI	Martine Simonelig
Nom d'encadrant Supervisor	Anne Ramat
<b>Description</b> (3 phrases)  Description (3 sentences)	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 biophysical properties, organization and functions of membraneless condensates. The project involves innovative approaches to purify RNA granules and single molecule imaging to record ongoing translation.  Methods and approaches: <i>Drosophila</i> molecular genetics; optogenetics; RNA 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 mois 6 months
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