



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 <i>Title</i>	Assembly of snRNP U5, a key component of the spliceosome
Laboratoire d'accueil <i>Host laboratory</i>	Institut of Human Genetics-UMR 9002 du CNRS
Nom du responsable <i>Name of the PI</i>	Edouard Bertrand
Nom d'encadrant <i>Supervisor</i>	Céline Verheggen and Séverine Boulon
Description (3 phrases) <i>Description</i> (3 sentences)	<i>The laboratory is involved in studying the action mechanism of R2TP chaperone, working with HSP90 in cellular machinery assembly. U5 snRNP that is part of the spliceosome is assembled by R2TP. If spliceosome is not correctly assembled, this leads to alterations involved in human diseases. By using AlphaFold3, we have predicted interaction domains between U5 components and R2TP and its cofactors. We will evaluate how the expression of punctual mutants of this interaction can affect assembly and localization of snRNP U5 in human cells.</i>
Durée prévue (2 à 6 mois) <i>Duration</i> (2 to 6 months)	6 months
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