



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

Offre pour / Offer for

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

Intitulé du stage <i>Title</i>	Development of PROTACs for a targeted inhibition of SUMOylation in cancer cells
Laboratoire d'accueil <i>Host laboratory</i>	IGMM (Institute of Molecular Genetics of Montpellier)
Nom du responsable <i>Name of the PI</i>	Guillaume Bossis
Nom d'encadrant <i>Supervisor</i>	Olivier Coux
Description (3 phrases) <i>Description</i> (3 sentences)	SUMOylation is a post-translational modification that modifies protein function and fate in a variety of ways and is consequently involved in the regulation of most cellular processes. G. Bossis's team (IGMM) has shown that SUMOylation (1) plays a critical role in Acute Myeloid Leukemias (AML) response to therapies (chemotherapies, differentiation therapies and epigenetic therapies) and (2) is an interesting therapeutic target in AML. The goal of the project is to develop new strategies to inhibit SUMOylation, based on PROTACs (*) targeting SUMO enzymes. (*) PROTACs are bifunctional molecules able to provoke the degradation of their target (see Alabi & Crews (2021) <i>J Biol Chem.</i> 296 , 100647)
Durée prévue (2 à 6 mois) <i>Duration</i> (2 to 6 months)	To be discussed with applicants
E-mail	olivier.coux@cnrs.fr guillaume.bossis@igmm.cnrs.fr