



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>	Impact of 5-Fluorouracil on cell plasticity and drug tolerance in colorectal cancer
Laboratoire d'accueil <i>Host laboratory</i>	Team Signaling, Plasticity and Cancer directed by Julie Pannequin at the IGF
Nom du responsable <i>Name of the PI</i>	Julie Pannequin
Nom d'encadrant <i>Supervisor</i>	Laura Jentschel
Description (3 phrases) <i>Description</i> (3 sentences)	We recently discovered that 5-FU is incorporated into ribosomal RNA, leading to translational reprogramming in colorectal cancer cells. Our transcriptome profiling revealed a drug-tolerant state marked by increased translation of genes linked to senescence, metabolism, and epigenetic regulation—features associated with tumor plasticity and relapse. This project investigates how these changes contribute to 5-FU resistance, with the goal of identifying novel therapeutic vulnerabilities in persister cancer cells and prevent tumor relapse.
Durée prévue (2 à 6 mois) <i>Duration</i> (2 to 6 months)	5-6 mois
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