



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>	Search for upstream signaling pathways that activate the Syk tyrosine kinase and mediate its tumor suppressor and drug response activities in breast cancer	
Laboratoire d'accueil <i>Host laboratory</i>	Institut de Recherche en Cancérologie de Montpellier (IRCM – INSERM U1194), « Signaling of tumor invasion team » (https://www.ircm.fr/index.php?pagendx=122&project=crcm_en)	
Nom du responsable <i>Name of the PI</i>	Peter COOPMAN	
Nom des encadrants <i>Supervisors</i>	Peter COOPMAN & Marion PETER	
Description (3 phrases) <i>Description</i> (3 sentences)	We first discovered that the protein kinase Syk acts as a tumor suppressor in breast cancer (<i>Nature</i> , 2000). Our research has mainly focused on the role of Syk downstream effectors in cancer. Conversely, this internship aims to identify upstream signaling pathways that activate Syk in breast cancer cells, which currently remain unknown. Using (phospho)proteomic analyses on a differential interactome, comparing WT with mutant Syk forms that no longer localize nor interact at the sub-membrane level, we identified a unique and promising candidate protein that will be studied in detail by cancer cell biology assays (proliferation, invasion, cytotoxicity), immunocytochemistry and biochemistry.	
Durée prévue (2 à 6 mois) <i>Duration</i> (2 to 6 months)	2 to 6 months (Master 1) 5 to 6 months (Master 2)	
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