



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)

X Master 2 (from end January)

Intitulé du stage <i>Title</i>	Deciphering and targeting the collagen-Discoidin Domain Receptor signaling to enhance the therapeutic response in colorectal cancer
Laboratoire d'accueil <i>Host laboratory</i>	CRBM CNRS UMR5237, team "Cancer Cell Signaling"
Nom du responsable <i>Name of the PI</i>	Serge ROCHE
Nom d'encadrant <i>Supervisor</i>	Audrey SIRVENT
Description (3 phrases) <i>Description</i> (3 sentences)	<p>Several recent studies propose that the tyrosine kinase receptors DDR1 and DDR2 are important mediators of collagens-induced tumor-promoting effects, contributing to tumor progression, therapeutic resistance, and poor prognosis in colorectal cancer (CRC). This project aims to: (1) investigate the spatio-temporal dynamics of DDR1/2 signaling using TurboID-based proximity labeling combined to mass spectrometry; (2) characterize the role of DDR1/2 signaling in immune exclusion within the CRC tumor microenvironment and (3) evaluate whether pharmacological inhibition of DDR1/2 kinase activity using already clinically approved drugs developed for other targets can overcome resistance/enhance CRC therapeutic response.</p> <p><i>Methods: 2D & 3D cell culture, western-blots, immunoprecipitation, proteomics, multiplex flow cytometry and immunohistochemistry.</i></p>
Durée prévue (2 à 6 mois) <i>Duration</i> (2 to 6 months)	5 to 6 months
E-mail	audrey.sirvent@crbm.cnrs.fr