

Fiche proposition de stage - Internship offers

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) x Master 1 (from end January

Intitulé du stage	Targeting collagen receptor DDR1 kinase activity to reverse immune
Title	exclusion and improve treatment of colorectal cancer
Laboratoire d'accueil	CRBM CNRS UMR5237
Host laboratory	Team "Cancer Cell Signaling"
Nom du responsable	Serge ROCHE
Name of the PI	
Nom d'encadrant	Audrey SIRVENT
Supervisor	
Description (3 phrases)	Several recent reports point to the tyrosine kinase receptor DDR1 as
Description (3 sentences)	an essential receptor mediating collagens tumor promoting effects associated with metastatic colorectal cancer (mCRC) progression
	and therapeutic resistance. The specific objectives of this project are: (1) to evaluate the contribution of DDR1 kinase activity in CRC tumor progression and immune exclusion, (2) to identify the
	associated molecular mechanisms and (3) to address if the targeting of DDR1 activity with ATP competitive inhibitors can overcome
	therapeutic resistance/improve response to immune check-point inhibitors using immunocompetent mice models.
	Methods: 2D and 3D cell culture, co-cultures, western-blot, proteome
	profiler antibody arrays, Q-PCR, CRISPR-CAS9, sub-cutaneous mouse xenografts, flow cytometry, immunofluorescence and immunohistochemistry.
Durée prevue (2 à 6 mois) Duration (2 to 6 months)	5 to 6 months
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