



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)

Master 1 X

Master 2 X

Parcours concerné(s) : **Cancer Biology - EpiGenBio - Medecine Expérimentale et Régénératrice - BIOTIN - IDIL**

Intitulé du stage <i>Title</i>	Inter-organ communications during cancer-associated cachexia
Laboratoire d'accueil <i>Host laboratory</i>	Epithelial growth and cancer - IRCM
Nom du responsable <i>Name of the PI</i>	Alexandre DJIANE
Nom d'encadrant <i>Supervisor</i>	Charles GEMINARD
Description (3 phrases) <i>Description (3 sentences)</i>	Cachexia is a systemic disorder frequently associated with cancer, characterised by severe weight loss, muscle and adipose tissue atrophy. These profound metabolic changes result in general weakness and cachexia is responsible for the death of 30% of cancer patients. Despite its clinical importance, there are currently no robust biomarkers and therapeutic strategies are mostly ineffective. Using drosophila and mouse models of cachexia we have identified the molecules secreted by the tumours, and the other organs (liver, adipose...) potentially contributing to tissue wasting. We currently work on two main axes: i) we have shown that the CREBRF/REPTOR transcription factor is required for adipose tissue wasting and we seek to identify the transcriptional and metabolic programs they control. ii) using blocking antibodies in mouse models, we could demonstrate the role of a family of ligands in adipose tissue atrophy, thus reverting cachexia, and we seek to better understand their mode of action.
Durée prévue (2 à 6 mois) <i>Duration (2 to 6 months)</i>	4 to 6 months
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