

Master program in Cancer Biology

Internship proposal form 2023

MASTER 1

MASTER 2

Title	Inter-organ communications during cancer-associated cachexia
Host laboratory	Epithelial growth and cancer - IRCM
Name of the PI	Alexandre DJIANE
Supervisor	Charles GEMINARD
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Description (10 lines)	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 the project will focus on identifying the molecules secreted by the tumours, and the other organs (liver, adipose...) that contribute to tissue wasting. It will also investigate the role of a new class of dietary lipids that could protect muscle wasting.
Duration (2 to 6 months)	5 to 6 months