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 → yes
Master 2 → yes

Parcours concerné(s) :

Intitulé du stage *Title*	Shaping Thymic epithelial and immune landscapes in Experimental Models of Polycystic Ovarian Disease
Laboratoire d'accueil *Host laboratory*	Molecular bases of women's health and diseases
Nom du responsable *Name of the PI*	Roberta Ragazzini
Nom d'encadrant *Supervisor*	Roberta Ragazzini Rachel Spenle
Description (3 phrases) *Description (3 sentences)*	*Polycystic ovary syndrome (PCOS) is the most prevalent endocrine disorder affecting women of reproductive age. Although it is widely recognized as a systemic metabolic disease, its impact on immune homeostasis remains incompletely understood. Women with PCOS exhibit an increased susceptibility to autoimmune disorders and show alterations in the T cell compartment. The thymus, a lymphoepithelial organ responsible for T cell development, has recently been shown to possess a highly complex epithelial architecture, which is essential for the generation of a competent and self-tolerant T cell repertoire. Our lab is setting up a mouse model of PCOS where the thymus will be harvested at different stages of development and epithelial/immune fractions analysed in females pups with PCOS.*
Durée prevue (2 à 6 mois) Duration (2 to 6 months)	2 months for M1 student : set up tissue dissociation protocol, histology, multiparametric flow-cytomtery 6 months for M2 student : tissue dissociation, analysis via single-cell nuclei, histology, immunofluorescence , multiparametric flow-cytometry
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