



**Research Project Proposal**  
Academic year 2021-2022  
**Máster en Investigación Biomédica**

**Project Nº 14 ASIGNADO**

Project title: *Implementation of murine ovarian cancer model based on ID-8 cell line.*

Department/ Laboratory Laboratory where the project will be carried out indicating Department, Area, Faculty, CUN, CIMA etc.

*Translational Oncology laboratory (2.04), Department of Solid Tumors, CIMA.*

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Summary:

*Ovarian cancer is one of the leading causes of death among women and the leading cause of death from gynecological cancer due to its late detection. The established treatment for ovarian cancer treatment allows a temporal control of the disease. However, 70% of patients will relapse in the first 3 years after diagnosis. Currently there are different types of preclinical models used to study the impact of drug combinations in ovarian cancer models including syngeneic, xenograft and humanized mice models. Despite all these models, establishing standardized, relevant, feasible, and reproducible mice models for the study of ovarian cancer remains a challenge. The goal of this project is to improve the current ovarian cancer murine model based on ID-8 cell line injection by increasing their aggressiveness through genetic modifications (CRISPR). For this purpose, ID-8 cells will be infected with lentivirus carrying out the most important genetic mutations for ovarian cancer and will be implanted in different mice strands to evaluate the impact on cancer development. In addition to this and depending on the successful performance of the previous task, the effect of different drugs could be tested in these models to evaluate their efficacy reducing the tumoral metastasis.*

yes

X

Does the project include the possibility of supervised animal manipulation to complete the training for animal manipulator?

no