



**MÁSTER EN INVESTIGACIÓN BIOMÉDICA**

**Research Project Proposal**

Academic year 2022-2023

**Project Nº 01**

**Title:** *Study of innate immune system impact on drug response in murine ovarian cancer models*

**Department/ Laboratory** *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. In CIMA we have developed a reliable and reproducible ovarian cancer animal model based on the injection cells marked with bioluminescence, which allows the monitorization of tumoral growth over the time. Innate response constitutes the first barrier of defense in our body and some elements are key factors involved in cancer development and progression. The goal of this project is exploring the relevance of different elements of innate response including macrophages or complement system factors on the development of drug response and resistance in ovarian cancer murine models. Hence, the person will acquire an extensive training in animal manipulation, including the most common procedures as anesthesia, intraperitoneal injection, bioluminescence tumor monitorization, tumoral cell isolation, imagen data analysis among other techniques.*

yes	<input checked="" type="checkbox"/>
no	<input type="checkbox"/>

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