



MÁSTER EN INVESTIGACIÓN BIOMÉDICA
Research Project Proposal
Academic year 2026-2027

Project Nº 1

Title: Decoding Immunotherapy Resistance in Lung Cancer: From Mechanisms to Solutions

Department/ Laboratory

Lab 2.04 "Therapeutic innovation for lung cancer". Solid tumor's program. CIMA

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Summary

This Master's project offers an exciting opportunity to join a young, dynamic research laboratory focused on understanding why some lung cancer patients do not respond to immunotherapy. As the central research line of the lab, this project addresses a critical and clinically relevant question with direct implications for patient survival and treatment outcomes.

The student will work in a highly collaborative and supportive environment, characterized by an outstanding team atmosphere and close mentorship. The lab provides access to a wide range of cutting-edge tools, including cellular and molecular techniques, advanced experimental platforms, animal models, and well-characterized patient-derived samples. This integrative approach ensures a truly translational experience, bridging fundamental biology with clinical application.

The project aims to dissect the cellular and molecular mechanisms that drive resistance to immune checkpoint inhibitors, contributing to the development of more effective therapeutic strategies. By combining experimental work with clinical insight, the student will gain a comprehensive understanding of cancer immunology and translational research.

Importantly, the Master's student will be closely supported throughout the project, receiving daily supervision from an experienced laboratory technician and mentorship from a PhD student. This structure ensures both technical training and scientific development in a nurturing environment.

This is a unique opportunity to contribute to impactful research while developing a strong foundation in translational cancer biology.

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