



MÁSTER EN INVESTIGACIÓN BIOMÉDICA

Research Project Proposal

Academic year 2026-2027

Project Nº 58

Title: *Host-microbiome-diet interactions in cancer*

Department/ Laboratory *Microbiome and Clinical Physiology*

Director 1 *Rafael Valdés Mas*

Contact: *rvaldesmas@unav.es*

This project aims to better understand how lifestyle-related factors may influence health, aging, and disease development. In particular, it focuses on the relationship between diet, the microbiome, and cancer, a disease that often appears in older individuals. The central idea is that nutrition and the microorganisms living in the body may affect the general state of the organism and contribute either to maintaining health or to increasing disease risk.

The project will explore how different dietary habits may shape biological processes associated with aging and how these changes could influence the early stages of disease. By studying these interactions, the project seeks to generate new knowledge that may help identify future strategies for prevention, early intervention, and healthier aging.

A major expected contribution of this work is to improve our understanding of how external and modifiable factors, such as diet, can influence internal biological processes. This knowledge could be relevant not only for cancer, but also for other age-related diseases. The project also has potential social impact, as it may support the development of healthier lifestyle recommendations and contribute to reducing disease burden in aging populations.

Overall, this proposal addresses an important biomedical challenge by connecting nutrition, microbiome research, aging, and cancer prevention. Its long-term goal is to contribute to better health, improved quality of life, and new opportunities for preventive approaches in modern medicine.

yes	X
no	

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