Universidad de Navarra
Facultad de Ciencias

MÁSTER EN INVESTIGACIÓN BIOMÉDICA
Research Project Proposal
Academic year 2025-2026

Project Nº 36

Title: *Functionalization of mimetic periostium for bone regeneration estrategies*

Department/ Laboratory *Biomedical Engineering Program, CIMA*

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This master's thesis focuses on the functionalization of 3D-printed polycaprolactone membranes to develop a mimetic periosteum designed for the sustained and controlled release of the BMP-2 morphogen.

In this project, membranes will be fabricated using 3D printing with polycaprolactone and subsequently functionalized through chemical reactions to enable the controlled release of BMP-2. Their biocompatibility will be evaluated through cell culture, aiming for application in bone regeneration strategies.

yes	
no	

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

Enviar a mnrahona@unav.es en formato WORD