



investigadores predoctorales en Investigaciones Biomédicas de Aragón

Welcome to the ipIBA seminar series 2023/2024

Short informal talks given by **predoctoral researches of Aragón** with the aim to promote 2 main goals:

1. **Networking** between predoctoral and postdoctoral researchers in Aragón.
2. Improve our **communicative skills**.

“Towards smart healing: Controlling antimicrobial release for effective wound care”

Tuesday, December 12th 2023
From 9:30 to 10:30

Summary:

In this talk, results of various efforts to create enhanced systems for delivering antibacterial agents will be presented. We have designed and developed innovative biocompatible polymeric nanofiber dressings loaded with antibiotics, synthetic antiseptics, and essential oil-based antiseptics. The focus is on ensuring effective and prolonged antimicrobial activity while minimizing toxicity through the careful selection of biocompatible polymers. Techniques such as specific antibody targeting and antibiotic synergy are discussed to enhance efficacy and minimize resistance at low concentrations. In vitro evaluation of all materials allows us to understand their bactericidal properties and their potential use in infected topical wounds.

Speaker: Laura Gabriela Miranda Calderón (laumiranda270@gmail.com)

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Affiliation: AMIB (INMA / CIBA)

Principal Investigator: Dr. Manuel Arruebo

Organizes: Institute for Health Research Aragón

Link to join the seminar:

https://us02web.zoom.us/webinar/register/WN_r2aV3TjqQmKul13144JP0g



 Facultad de Medicina (Sala de Grados) and online via ZOOM

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