



investigadores predoctorales en Investigaciones Biomédicas de Aragón

Welcome to the ipIBA seminar series 2022

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

1. **Networking** between young researchers of Aragón.
2. Improve our **communication skills**.

“Development of nanosystems for the controlled release of drugs in the treatment of osteoarthritis and associated inflammatory pain”

Tuesday, May 3rd 2022
From 9:30 to 10:30

Summary:

Osteoarthritis (OA) is the most common joint disease, affecting 500 million people in the world, a number that is increasing in recent years due to the increase in life expectancy and risk factors such as obesity, resulting in a great socioeconomic impact. OA is a degenerative disease that affects the entire joint and is characterized by the destruction of cartilage, alterations in the structure of the subchondral bone and chronic inflammation of the synovial membrane, which entails pain and joint stiffness, and therefore the deterioration of the patient's quality of life. Currently, OA has no cure, and treatments are palliative, aimed at relieving symptoms, mainly through drugs, and ultimately surgery. Therefore, the development of novel and effective treatments capable of reducing symptoms and stopping the progression of the disease is necessary. The main objective of this project is to develop nanostructured systems capable of releasing substances in a controlled manner, acting on molecular targets in cartilage to inhibit or stop the progression of osteoarthritis, as well as palliate the main symptoms of osteoarthritis, such as inflammation and associated pain.

Speaker: Cristina Ramirez (cremirezg@gmail.com)

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Principal Investigator: Manuel Arruebo/Gracia Mendoza

Doctoral Programme: Chemical Engineering & Environmental Technology

Organizes: ipIBA and Institute for Health Research Aragón



Link to join the seminar:

https://us02web.zoom.us/meeting/register/tZ0qc-igrTMtGtR8esQvaW_qsQa3Qpp-9f4n

CIBA, main meeting room, and online via zoom

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