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Posición y cargo: CATEDRÁTICO DE UNIVERSIDAD/VICEDECANO DE ESTUDIANTES

Grupo de Investigación: Biomateriales inteligentes

Docencia: QUÍMICA INORGÁNICA, QUÍMICA GENERAL, BIOMATERIALES

Área de Conocimiento: QUÍMICA INORGÁNICA

SCOPUS: ORCID: Researcher ID: 8393655000; 0000-0002-9722-0303: G-9655-2017

Biography: I started my research career in the field of coordination compounds, synthesizing and characterizing molecular models to be employed to study different biological systems. After that, I dedicated several years to semiconductor materials as tin oxide in order to use them in the detection of gas pollutants as the CO. In the last two decades, my research has focused on the preparation and characterization of biomaterials for its potential use in tissue engineering. Specifically, I have worked in the design and preparation of 3D scaffolds with a hierarchical porosity. These tailored scaffolds, composed by a bioceramic such as nanocarbonatehydroxiapatite and a gelling agent (agarose, gellan), have been already successfully implanted in experimental animals (rat, rabbits and pigs). The principal objective is to use these scaffolds in osseous repair and controlled drug release. Considering the complexity of this task, our research team collaborates with specialists from different scientific areas (traumatology, biology ...) in an interdisciplinary approach necessary to fulfill the proposed objective.

Research Interest: Biomaterials, Scaffolds, bone substitutes, drug release.