



Oral Bone Disease and Bone Regenerative Therapy for Dental Implants

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Deadline for manuscript submissions:

closed (20 November 2022)

Message from the Guest Editors

Bone tissue engineering aims to repair, restore, and regenerate lost or damaged bone tissues using isolated or combined biomaterials, cells, and factors (chemical and biological). One of the goals in bone tissue engineering is to develop biocompatible materials capable of accelerating the repair of bone diseases and bone loss from trauma and aging while ensuring the functionality and mechanical structure of the new-formed bone.

Nanostructured and bioactive biomaterials have been highlighted as strategic elements for regenerative medicine due to their large specific area, its characteristic of acting as carrier vehicles, and the release of growth factors, cells, and drugs. These characteristics potentiate the bioabsorption of the material and its efficiency in tissue regeneration, as well as its use as a nanocarrier of biomolecules (proteins, peptides, growth factors, and drugs). Although significant progress has been made in this field, challenges remain regarding the treatment of bone diseases such as bone infections caused by drugs and recovery of lost bone for subsequent prosthetic rehabilitation on dental implants.





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Message from the Editor-in-Chief

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