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Oral Bone Disease and Bone Regenerative Therapy for Dental Implants

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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

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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