## **Special Issue**

# Biomaterials for Dental Bone Regeneration: Current Trends, Novel Applications and Strategies

## Message from the Guest Editor

Autologous bone represents a gold standard for bone reconstruction in terms of osteogenesis, osteoconduction and osteoinduction, as it shares all these properties with the surrounding bone. Despite having great advantages in terms of similarity with the vital bone structures of the affected site, this graft also implies important disadvantages, likely due to the related bone harvesting morbidity and possible surgical complications. Considering the difficulty involved in raising it, other alternative grafts were suggested in form of homologous/xenologous bone or resorbable synthetic materials (in association with or unrelated to collagen membranes) for the dimensional preservation of post-extraction sites or to promote a proper physiological remodeling process.

We encourage potential contributors to this Special Issue to submit manuscripts or systematic reviews aimed at highlighting updated indications, features and applications of novel approaches/strategies regarding the use of materials for dental bone regeneration.

## **Guest Editor**

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## Deadline for manuscript submissions

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## Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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