



Dental Implant Biomaterials: In Vitro and In Vivo Simulations and Applications

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Message from the Guest Editors

In all fields of regenerative medicine, and in particular in dental implantology, the success rate depends on several parameters, including the chemical, physical, mechanical and biological properties of the materials. For the optimization of these characteristics, both in vitro and in vivo simulations represent the gold-standard protocols to characterize the biocompatibility, biomechanics, and bioactivity of new biomaterials.

To this end, the Special Issue “Dental Implant Biomaterials: In Vitro and In Vivo Simulations and Applications” aims to collect the latest knowledge on dental implant biomaterials obtained through in vitro and in vivo studies.

- Dental implant materials
- In vitro and in vivo models
- Biological osseointegration process
- Cellular interaction in bone remodeling
- Histological and histomorphometrical aspects
- Biomechanical aspects





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Message from the Editor-in-Chief

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