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Advances in Implantable Biomaterials: Design, Mechanical Properties and Applications

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Message from the Guest Editor

Dear Colleagues,

The aim of the present Special Issue is to represent the state-of-the-art of implantable biomaterials with particular regards to the oral ones.

In recent years, dental implants have seen a significant improvement in both their micromorphology and micromorphology.

In terms of micromorphology, innovative bone-to-implant surfaces with different roughness and biomechanical properties have been proposed.

In the same way, for macromorphology, a number of studies have reported different results according to many implant–abutment connections (conical, inner and external hexagon) and the different shapes of fixture and abutments.

The current research is focused on developing simpler solutions to treat a wider population of patients, including systemic ones (cardiopathic, diabetes, etc.)

Another fundamental point is the maintenance of implantable devices, which, in the oral cavity, demonstrate a decreased rate of peri-implantitis and mucositis, through professional hygiene protocols, as well as with innovative techniques (e.g., laser).



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Special Issue



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