



## **Ceramic and Metallic Biomaterials. Application in Medical Sciences**

Guest Editor:

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### **Message from the Guest Editor**

Dear Colleagues,

Nowadays, the development of new materials that can be used to treat, repair, diagnose, or restore a function of the human body represents one of the key research topics for the worldwide scientists and medical industries. Another important class of compounds that has attracted the attention of the scientific community is represented by ceramic biomaterials, which can be used for the replacement of various types of tissues. The outperformance of a biomaterial is determined by its crystalline structure, microstructure, biocompatibility, corrosion resistance, or mechanical properties. In this context, the development of new biomaterials with improved physical and mechanical properties and a low production cost, high availability, and good esthetics is imperative.

List of the potential topics:

Metallic biomaterials for manipulation of living cells;  
New approaches in cancer detection and treatment;  
Advances in dental restorations materials;  
Tissue engineering.





## Editors-in-Chief

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## Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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