

Special Issue

Bio- and Osseointegration in Dentistry

Message from the Guest Editor

With the increase in human lifetimes, the need for biomaterials replacing parts of the human body or organs is increasing. Therefore, the study of the biointegration of alloplastic materials and development of biocompatible materials is one of the most important research fields in biomedical sciences. The goal of dentistry is to maintain and improve the health of human teeth and oral cavities in order to improve the life quality of the patient. All these activities require the replacement or alteration of existing tooth structure and hard and soft tissues. For example, dental implants are one of the most frequent and successful biomaterials, as dentistry responded well to the main challenges of developing and selecting biocompatible prosthetic materials that can withstand the adverse conditions of the oral environment (for, e.g., abrasion, pH, temperatures, high magnitude masticatory forces, or bacteria). This Special Issue aims to collect updates on the bio- and osseointegration phenomena of biomaterials used in dentistry, based on evidence from biological surface science and the *in vitro* and *in vivo* studies of the applied biomaterials.

Guest Editor

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