Special Issue

Current Advances in Periodontal and Peri-Implant Diseases

Message from the Guest Editors

Periodontal and peri-implant diseases are crucial concerns in oral health all over the world. They are characterized by multifactorial etiology, including the disruption of the oral microbiota, mechanical stress, and systemic disorders, such as diabetes mellitus. The removal of microbial pathogens is imperative in current periodontal treatment. In addition, a variety of surgeries have been widely performed, such as the application of biomaterials to address periodontal defects and to achieve esthetic periodontal tissue appearance. However, genuine periodontal tissue regeneration has not yet been established. Understanding the onset background, intercellular crosstalk, and genomic regulation is essential to elucidate the process of periodontal regeneration. This Special Issue summarizes the basic and clinical knowledge of periodontal/peri-implant tissue regeneration and highlights the potential of next-generation treatments for periodontal/peri-implant diseases.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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