Special Issue

Cellular and Molecular Mechanism in Periodontal Diseases II

Message from the Guest Editor

Periodontitis is an extremely complex and multifactorial disease, leading to the destruction of all the components of the periodontium, namely, gingiva, periodontal ligament, cementum, and the alveolar bone.

The mechanisms underlying the initiation and progression of periodontal disease are very complex and not entirely understood. The maintaining of oral health depends mainly on the homeostasis between oral microbiome and host immune systems, and its disruption is a major event in the initiation of periodontal disease. Host microbial homeostasis in the oral cavity could be disrupted by ecological, genetic, and epigenetic factors, as well as by subverting the host immune system by some keystone pathogens. Understanding the exact mechanisms involved in the progression and control of the immune response is crucially important for the development of new strategies for periodontitis treatment and prevention.

This Special Issue welcomes in vitro, animal, and clinical studies on the cellular and molecular mechanisms involved in the maintenance of oral host–microbe homeostasis and the regulation of the immune response in periodontitis.

Guest Editor

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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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