Special Issue

Cellular and Molecular Mechanism in Periodontal Diseases

Message from the Guest Editor

Periodontitis is an extremely complex and multifactorial disease, which is considered as a major public health problem worldwide.

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. The progression of periodontal disease and tissue destruction is mainly forced by the immune response to overgrowing oral biofilms. A dysregulated immune response is considered to be the major cause of periodontal tissue damage. Understanding the exact mechanisms involved in the progression and control of the immune response is crucially important for the development of the new strategies of 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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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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