



Cellular and Molecular Mechanism in Periodontal Diseases II

Guest Editor:

Dr. Oleh Andrukhov

Bernhard Gottlieb University
Clinic of Dentistry, Medical
University of Vienna, 1090 Vienna,
Austria

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Message from the Guest Editor

Dear Colleagues,

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.





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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