

## Special Issue

# Molecular Mechanisms of Periodontal Disease 2.0

### Message from the Guest Editor

Periodontitis is a chronic inflammatory disease characterized by lymphocytic infiltration and alveolar bone destruction, along with tooth loss. Such destructive inflammation is elicited by host innate and adaptive immune response to periodontal biofilm-associated multiple microorganisms. In addition, several inflammatory cytokines produced from lymphocytes, leukocytes, fibroblasts, and gingival epithelial cells in the context of host immune responses have been identified as key molecules inducing periodontal tissue destruction. More specifically, proinflammatory cytokines, including IL-6 and IL-17, facilitate the RANKL expression level in fibroblasts or lymphocytes, which results in the induction of bone resorption. To that end, this Special Issue, which is a continuation of a previous successful issue on the molecular mechanisms of periodontal disease, focuses on novel immune reaction systems from the molecular level to the cellular level (Th1, Th2, Th17, Treg, and B cells activity, osteoclastogenesis, dendritic cells and monocytes immune response, the role of fibroblasts/epithelial cells in inflammation, etc.) in mouse periodontal disease models.

### Guest Editor

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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