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 biofilmassociated 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 RNAKL 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

Prof. Dr. Mikihito Kajiya

Department of Periodontal Medicine, Applied Life Sciences, Institute of Biomedical & Health Sciences, Graduate School of Biomedical & Health Sciences, Hiroshima University, Minami-ku, Hiroshima 734-8553, Japan

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International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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