

Special Issue

Stem Cell Therapy for Periodontal Disease

Message from the Guest Editor

Periodontal disease is characterized by the chronic inflammation and reduction of tooth-supporting periodontal tissues. Periodontal regeneration using stem cells has been attracting attention for the past 20 years. While numerous studies have reported that stem-cell transplantation leads to the regeneration of periodontal tissues, little information is available on the mechanism of the regeneration. Additionally, some problems related to stem-cell transplantation have also come to light, such as the risk of tumorigenicity, limited cell sources, difficulty in controlling the behavior of transplanted cells, and cost of culturing transplanted cells. Therefore, periodontal regeneration using stem cells now requires ingenuity and new attempts to become a realistic treatment. These may include the search for new cell sources, the possibility of cell-free treatment, the validation of new regeneration mechanisms with stem cells, and the development of new materials for periodontal regeneration.

This Special Issue invites papers on the verification of new attempts to regenerate periodontal tissues and the clarification of regenerative mechanisms, inspired by stem-cell transplantation.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/98104

*International Journal of
Molecular Sciences*
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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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