

Special Issue

Molecular Advances in Dental Pulp Tissue Engineering, 2nd Edition

Message from the Guest Editors

Protected by the surrounding mineralized barriers, such as enamel, dentin and cementum, dental pulp is a functionally versatile tissue that fulfils various tasks. Besides the perception of thermal and mechanical stimuli as a warning system as well as the deposition of dentin, the pulp exerts a variety of immunological functions, in terms of both recognition and of defense. In recent years, creative and multi-faceted attempts have been made to regenerate this valuable tissue using advanced molecular biology methods. Promising approaches based on tissue engineering and regenerative medicine (TERM) have been developed for this purpose. This Special Issue aims to present the scientific progress in this field of research. The goal is to collect innovative studies in the field of stem cell biology, scaffold material development or molecular signaling that contribute to the transfer of this knowledge from the bench to the dental clinic.

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