Special Issue

Advances in Pulp Biology: Next-Generation Therapeutics and Biomaterials

Message from the Guest Editors

This Special Issue highlights recent advancements in pulp biology and biomaterials, focusing on next-generation therapeutics that enhance regenerative dental treatments. As innovations in biomaterials and biotechnology continue to evolve, the development of materials that actively engage in biological repair and regeneration represents an exciting shift in vital pulp therapy.

We invite research that examines biomaterials designed to support the pulp's natural healing processes, emphasizing cell viability, anti-inflammatory properties, and the promotion of mineralized tissue formation/hard tissue formation. Of particular interest are bioactive materials, including novel applications of calcium silicate-based cements that align with contemporary needs for minimally invasive, biologically compatible treatments. By gathering research in these areas, this Special Issue aims to provide a comprehensive overview of the emerging therapeutic standards and evolving directions in regenerative dental care. Both research and review articles are welcome.

Guest Editors

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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the Journal of Functional Biomaterials (JFB) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. JFB seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

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