

Special Issue

Clinical Advances and Mechanistic Insights in Periodontal-Endodontic Therapy: Technical Innovations, Microbial Targeting, and Long-Term Prognosis

Message from the Guest Editors

Periodontal and endodontic therapies play essential roles in preserving natural dentition and maintaining long-term oral health. In both fields, continuous advances in diagnostic technologies, biomaterials, and minimally invasive techniques have significantly improved clinical outcomes and treatment predictability. Growing insights into microbial ecology, host immune responses, and tissue healing mechanisms are contributing to a deeper understanding of disease progression and treatment outcomes. In parallel, the application of artificial intelligence (AI) and digital technologies is beginning to support diagnosis, risk assessment, treatment planning, and outcome prediction in both periodontology and endodontics. These developments are shaping new directions for both clinical practice and translational research. This Special Issue will present recent advances in and emerging perspectives on periodontal and endodontic therapies. We welcome submissions that address technological innovations, regenerative strategies, microbiological approaches, AI-based approaches, and factors that contribute to improving treatment outcomes and long-term tooth preservation.

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