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Biocompatibility and Bioactivity of New Endodontic Materials

Guest Editor:

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Message from the Guest Editor

In dentistry, research on biocompatibility of new materials prior to their clinical application is much needed, as the compounds may potentially damage the surrounding tissues, stimulating adverse reactions including toxicity, allergy or carcinogenicity, ultimately affecting the tissue renewal process and leading to the development and/or maintenance of exacerbated inflammatory responses. Substantial developments in materials science have led to the formulation of novel, bioactive materials for use in endodontics. Calcium silicate-based materials have been widely studied due to their resemblance and similar applicability to mineral trioxide aggregate (MTA). As bioactive materials are assumed to directly interact with pulp and/or periapical cells, or through the diffusion of components within the living periradicular tissue, assessing their biocompatibility is critical to ascertain their potential influence on reparative/regenerative responses.

This Special Issue will focus on the biocompatibility and bioactivity of new endodontic materials and their impact on clinical practice. Full papers of original articles, communications, and review articles are all welcome.

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Message from the Editor-in-Chief

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