

Special Issue

Biocompatibility and Bioactivity of New Endodontic Materials

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.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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