Special Issue

Bioactive Materials in Dentistry

Message from the Guest Editor

The evolution of dental materials and dentistry go hand in hand. Historically, the development of materials has evolved by mainly focusing on the improvement of physical and mechanical properties and enhancing their clinical performance and longevity. In recent times, there has been more emphasis on the development of bioactive materials that elicit a biological response. Bioactivity of the materials and a specific response at the interface between tissues and the material results in the formation of a bond and an apatite-like material by strong chemical interaction. Bioactive materials are produced in different forms and with different compositions. These materials are broadly used in all fields of dental medicine. Bioactive materials are promoted as dentin replacements, mimicking properties of hard dental tissues, and enabling biomineralization in dentin. Furthermore, in contact with pulp tissues or periodontal ligament, bioactive materials stimulate repair processes, and deposition of osseous tissue in injured bone.

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Deadline for manuscript submissions

closed (20 July 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/59342

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