



Bioactive Materials in Dentistry

Guest Editor:

Prof. Dr. Ivana Miletic

Department of Endodontics and Restorative Dentistry, School of Dental Medicine University of Zagreb, 10000 Zagreb, Croatia

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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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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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