Special Issue

Application of Dentin Matrix in Tissue Regeneration

Message from the Guest Editors

The idea of DDM was largely developed by Urist in 1965. Yeomans and Urist were the first to use extracted teeth as a graft material in 1967, where they discovered and verified that decalcified dentin matrix can induce bone formation.

Since 2010, many preclinical studies have reported that demineralized dentin matrix (DDM) is an "inductive substrate" because the bone inducer originating from the extracellular dentin matrix has similar osteoinductivity that transforms the mesenchymal fibroblasts into cartilage or bone cells. One of the transforming factors present in both the dentin and bone matrix is BMP. Consequently, clinical trials have shown promising results for the past decade.

This Special Issue will be a great opportunity to bring together all research related to dentin matrix that are scattered around various countries among researchers, clinicians, etc., because the historical background of dentin matrix is not so long. In order that we can discuss where we are and where we wish to go in the future with dentin matrix as a reliable, evidence-based biomaterial, we need to spread awareness of this novel approach in the dental field.

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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the Journal of Functional Biomaterials (JFB) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. JFB seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

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