Special Issue

Advances in Platelet-rich Fibrin for Bone Tissue Engineering

Message from the Guest Editor

The use of bioactive biomaterials in tissue engineering, especially platelet-rich fibrin (PRF), has gained increasing importance in the last few years. This special group of autologous and bioactive biomaterials provides signaling molecules, growth factors, and cytokines that support the regeneration process. Great efforts have been undertaken to understand the composition and bioactivity of differently prepared platelet-rich fibrin matrices and their interactions with cells. Recent studies have outlined the significance of the preparation protocol and the applied centrifugal force for the cellular content and structural characters of the resulting fibrin-based biomaterials. However, still little is known about the benefits and mechanisms of action of PRF in bone regeneration. Therefore, further research is essential to outline these aspects and provide additional scientific evidence in this field.

Guest Editor

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