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Scientific Advances in Fracture Healing and Bone Regeneration: Current Strategies for Enhancing Bone Repair

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Message from the Guest Editor

A deep understanding of the biology underlying bone regeneration, knowledge on current fixation methods and standardized pain management, feasibility and requirements for cell grafting approaches, and biologics and physical stimulation as well as strategies for enhancing repair ensure successful clinical management of fracture repair. This Special Issue will focus on up-to-date experimental methods to measure, assess, and enhance bone repair using standardized state-of-the-art techniques and new biological, chemical, and tissue-engineered approaches; current and new types of fixation protocols; and appropriate experimental in vitro and in vivo models. In particular, for this Special Issue contributions dealing with strategies for enhancing fracture repair, including improvement of vascularization with a substantial enhancement of knowledge on bone biology and osteoimmunology as well as new experimental in vitro and in vivo approaches, are highly encouraged.



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Special Issue



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Message from the Editor-in-Chief

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