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Regenerative Medicine: Role of Stem Cells and Innovative Biomaterials 3.0

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Message from the Guest Editors

Regenerative medicine is a growing area of the medical sciences that has the unique peculiarity of involving both biological pathways and clinical applications. Currently, the main actors in tissue regeneration are stem cells and biomaterials. The proper combination of these factors is the key to successfully treating damaged or lost tissues, promoting tissue formation, and simultaneously restoring aesthetics and function. Future regenerative strategies will be aimed at developing innovative biologically friendly and smart biomaterials, as well as at triggering stem cells towards specific lineages in clinical-grade conditions, including through the use of MSC-derived conditioned medium, exosomes or small molecules. The next approaches should overcome the current biological and clinical limitations and be able to use those autologous factors that can naïvely induce and promote the biological conditions that could guide and improve any kind of tissue regeneration. This Special Issue will highlight the most promising applications of tissue engineering in the future diagnostic and therapeutic procedures applied to the medical sciences.



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Special Issue



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Message from the Editor-in-Chief

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