



## Clinical Application of Stem Cells in Regeneration Medicine

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### Message from the Guest Editor

Regenerative medicine has the purpose of restoring the structure and function of damaged tissues or organs. In the body, different types of stem cells distributed in several tissues maintain homeostasis and tissue regenerative capacity. Due to their differentiation and immunomodulatory capacity, the use of stem cells as a tool in regenerative medicine has been expanding. Stem cells are currently being used in the clinic through cell therapy techniques by means of autologous or allogeneic transplantation. In addition to cell therapy, the induction of the mobilization of circulating stem cells is another strategy to favor the regeneration of damaged tissues. Along with these possibilities, stem-cell-derived extracellular vesicles have recently been shown to have immunomodulatory and regenerative properties. This is allowing the development of cell-free therapies for regenerative purposes. In view of the increasing knowledge of the possible alternatives for the use of stem cells at the clinical level, the aim of this Special Issue is to share the latest advances on the clinical application of stem cells or their extracellular vesicles in regenerative medicine.





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