



Advanced Research in Stem Cells and Regenerative Medicine

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Message from the Guest Editors

Stem cells are a population of undifferentiated cells characterized by their ability to extensively proliferate (self-renewal) and differentiate into different cell types (potency). Many studies have demonstrated that perinatal derivatives may represent important tools for restoring tissue damage or promoting regeneration and repair of the tissue microenvironment.

This Special Issue welcomes all types of manuscripts providing insight on aspects relevant to the use of perinatal derivatives in regenerative medicine. We are interested in a wide range of work, including differentiation to novel cell types or improvement on existing cell types, as well as their preclinical testing. Moreover, we are interested in understanding endogenous processes of tissue repair and homeostasis, stem cells' biology in relation to their therapeutic potential, new approaches in the tracking and imaging of both stem cells and tissues/organs undergoing regeneration, and data from clinical trials of stem-cell-based therapies. Finally, the mechanisms of stem cells' activity, including secretome and extracellular vesicles production, will be highly appreciated.

