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Prospects for the Medical Therapeutic Development of Umbilical Cord Blood

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submissions:

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Message from the Guest Editor

Regenerative medicine is an area of research that involves the “regeneration” of damaged, diseased and dysfunctional organs, tissues or cells due to aging, injury or disease. The development of stem cell research has been central to the field of regenerative medicine in recent years. Umbilical cord blood (UCB) has proven to be a rich source of mesenchymal and hematopoietic stem cells, a source that can be obtained at the time of birth. Collecting stem cells from umbilical cord blood (UCB) is fairly easy, as it does not involve an invasive procedure and it is mostly ethically non-controversial. UCB obtained at birth can be frozen and stored long-term for future clinical use. UCB is relatively less prone to transmission via viral infection and somatic mutations after clinical transplantation, which makes it a very promising material for broader clinical use in regenerative medicine. For this Special Issue, we invite authors to submit their original research articles, technical notes, meta-analyses, and review articles on evolving concepts in the uses of UCB as a source of stem cells and in therapeutics, they can include all areas of UCB.



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