

## Tentative Outline

### Special Thematic Issue for journal name

#### Understanding stem cells for advanced applications in the treatment of regenerative disease - an update

Guest Editors: Ying-Mei Feng

#### Aims & Scope:

Cardiovascular and cerebral diseases contribute substantially to the mortality and morbidity worldwide. Mesenchymal stem cells (MSCs) hold potential advantages that are superior to other stem cell types in the treatment of ischemic vascular disease. Therefore, MSCs have been applied in a variety of applications for patients with ischemic heart disease, stroke, diabetes and autoimmune diseases. Hematopoietic stem/progenitor cells are the only cells that could produce all kinds of blood cells. However, upon pathological conditions, HSPCs could switch toward another phenotype and critically involve in inflammation. The aim and scope of this special issue is to update our knowledge on MSCs and HSPCs in the aspects of isolation, cultivation and function under physiological and certain pathological conditions. This will help understanding the nature of the ischemic disease and shed light on future treatment how to best use stem cells in clinical practice.

**Keywords:** mesenchymal stem cells, hematopoietic stem/progenitor cells, regenerative medicine

#### Subtopics:

The subtopics to be covered within this issue are listed below:

- Bone marrow mesenchymal stem cells in patients with ischemic heart failure.
- Hematopoietic stem and progenitor cells in cardiovascular and cerebral diseases
- High-throughput RNA-sequencing identifies molecular signature of mesenchymal stem cells in a rat model of corneal allograft rejection
- Schwann cell-derived exosomes enhance differentiation of mesenchymal stem cells (MSCs) into Schwann cells in-vitro.
- The cell yields and biological characteristics of Stromal/Stem Cells Isolated from liposuction with different volume ratios of mixture to container

#### Schedule:

- ✧ Manuscript submission deadline: September 30, 2019
- ✧ Peer Review Due: November 30, 2019
- ✧ Revision Due: December 31, 2019
- ✧ Announcement of acceptance by the Guest Editors: June 1<sup>st</sup>, 2019 - January 31th, 2020
- ✧ Final manuscripts due: January 31th, 2020

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