



Hindawi

Stem Cells International

Special Issue on

Nutrition and Stem Cells Tissue Engineering

CALL FOR PAPERS

Stem cells are the multipotent cells known to differentiate into osteoblast, osteocytes, chondrocytes, and neuronal and other cell types. The stem cells are affected by metabolic and systemic disease conditions which lead to their inefficient regenerative capacity. Differentiation and regenerative capabilities of stem cells can be enhanced by providing the suitable microenvironment. Nutritional supplements such as vitamins and amino acids are important contributor in stem cell proliferation, differentiation, and extracellular matrix synthesis. Over the last decade, significant advances have been made in the field of nutrition supplement and stem cells tissue engineering.

In this special issue, we invite investigators to contribute original research articles as well as review articles that seek to address nutrition and its role in stem cell tissue engineering.

Potential topics include, but are not limited to:

- ▶ Nutrition supplement on stem cell senescence
- ▶ Nutritional transporter and stem cell differentiation
- ▶ Importance and significance of nutrition on stem cell tissue engineering
- ▶ Metabolic requirement for stem cell revival and differentiation
- ▶ Nutritional supplement for in vitro culturing of stem cells for clinical use
- ▶ Nutritional dependent epigenetic modification for improvement of stem cell tissue engineering
- ▶ Metabolic requirements for the maintenance and differentiation of stem cells
- ▶ Nutritional metabolomics and stem cell tissue engineering

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/sci/nstce/>.

Lead Guest Editor

Sadanand Fulzele, Georgia Regents University, Augusta, USA
sfulzele@gru.edu

Guest Editors

Carlos Isales, Georgia Regents University, Augusta, USA
cisales@gru.edu

Manish Bais, Boston University, Boston, USA
bmanish@bu.edu

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