

Special Issue for Current Stem Cell Research & Therapy

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Exploring and exploiting tissue engineering through the design of multifunctional therapeutic systems

Aims & Scope:

During the last few years, tissue engineering has widely propagated forwards like a tidal wave, providing a new concept for the use of stem cells, small molecules and biomaterials. In contrast to classic tissue repair approaches, the newly proposed strategies aim to induce new functional tissues, rather than simply implanting replacement of alloplastic or allogenic parts. This special issue from Current Stem Cell Research & Therapy examines the regeneration of damaged tissues driven by different new strategies using stem cells or small molecules. This special issue also includes articles presenting complex biological processes required to restore functionality of tissue when the regulatory function changes. It invites high-quality review papers describing the design of novel multifunctional therapeutic systems that facilitate tissue regeneration across different tissue types.

Key words: Tissue engineering; Biomaterial; Stem cell; Controlled delivery; regeneration

Subtopics:

Stem cell-microenvironment interactions

Controlled target/local delivery

Growth factors and therapeutic molecules

Hybrid tissue engineering scaffolds

Surface characteristics improvement

Schedule:

Manuscript submission deadline: 30th August, 2017

Peer Review Due: 30th September, 2017

Revision Due: 30th October, 2017

Notification of acceptance by the Guest Editor: 30th November, 2017

Final manuscripts due: 30th December, 2017