

Tentative Outline

Special Thematic Issue for Current Stem Cell Research & Therapy

Advances in stem cell sources and biomaterials in regeneration and reconstruction of oral and maxillofacial region

Guest Editors: Arash Khojasteh

Aims & Scope:

Stem cell-based therapy in combination with various biomaterials has been introduced as a promising treatment in regeneration and reconstruction of defects in oral and maxillofacial regions. Tremendous attempts have been done to find an ideal cell source. Also, a broad range of biomaterials, with enhanced physical and chemical properties, have been introduced by many laboratories. Additionally, many advances have been done in using novel technologies including application of bioreactors in order to fabricate functionalized grafts and using 3D bio-printing in order to engineer personalized bio-scaffolds. However, after decades of researches, there have been many obstacles and controversies to find an optimal treatment approach in order to replace the classic tissue repair approaches. In this special issue, we invite researchers in the field to submit original and review articles covering the following topics:

Keywords: regeneration, reconstruction, maxillofacial region, stem cells, biomaterials, bioreactors, 3D printer.

Subtopics:

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

- Finding the optimal stem cell sources for tissue engineering in oral and maxillofacial region.
- Optimizing the culture conditions in order to enhance the regeneration capabilities tissue engineering in oral and maxillofacial region.
- Fabrication of proper biomaterials for tissue engineering in oral and maxillofacial region.
- Using novel technologies including bioreactors and 3D bio-printers in order to improve the regeneration in oral and maxillofacial region .
- Personalized medicine for tissue engineering in oral and maxillofacial region.

Schedule:

- ✧ Manuscript submission deadline: 1st January, 2018
- ✧ Peer Review Due: 1st February, 2018
- ✧ Revision Due: 1st March, 2018
- ✧ Announcement of acceptance by the Guest Editors: 15th March, 2018
- ✧ Final manuscripts due: 1st April, 2018

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