Theme: Prospective Technologies for Bone Tissue Engineering in Dentistry

Guest Editors: Dmitry Bulgin, MD, PhD

Polyclinic ME-DENT
18 Istarska, 52210 Rovinj, Croatia
molmed1999@yahoo.com

Aims & Scope:

Interest in applications for bone tissue engineering in dentistry continues to increase as clinically relevant methods alternative to traditional treatments. Recent progress in the studies of molecular basis of bone development and regeneration, adult stem cell biology, materials science and bioengineering will provide fundamental knowledge for that. This information is already being used for the generation of bone tissue in vitro and in vivo. Bone tissues engineering is an opportunity that dentistry cannot afford to miss. Here, we focus on the use stem cells, growth factors, autologous biomaterials and synthetic or artificially designed substitutes for dental bone engineering and regeneration.

Keywords: Bone tissue engineering, dental bone regeneration, stem cells, growth factors, autologous biomaterials, synthetic or artificially designed substitutes, oral and maxillofacial surgery.

Description:

This issue provides recent advances in restoration and regeneration of dental bone by using stem cells, growth factors, autologous biomaterials, synthetic or artificially designed substitutes and integration of these promising innovations into clinical dental therapies, oral and maxillofacial surgery.

Subtopics:

- Stem cells and growth factors for dental bone engineering.
- Autologous biomaterials for dental bone engineering.
- Synthetic or artificially designed materials for dental bone engineering.
- Promising innovations in dental bone engineering and regeneration.
- Biomaterials applications in the oral and maxillofacial surgery.

Timeline:
1. Deadline for paper submission: May 1st, 2016
2. Completion for first-round: May 15th, 2016
3. Revision due: June 15th, 2016
4. Final decision notification: July 15th, 2016
5. Publication materials due: August 15th, 2016

**Authors names, affiliation and email addresses**

List the names and affiliations of all possible contributing authors:

**Zhiyuan Zhang**  
zhzhy@omschina.org.cn  
Oral Bioengineering/Regenerative Medicine Lab, Shanghai Key Laboratory of Stomatology, the Ninth People’s Hospital Affiliated to Shanghai Jiao Tong University School of Medicine, Shanghai, 200011, China.

**Barbara Kaltschmidt**  
barbara.kaltschmidt@uni-bielefeld.de  
Molecular Neurobiology University of Bielefeld Universitaetsstr. 25, D-33501 Bielefeld, Germany.

**Stephan T. Becker**  
becker@mkg.uni-kiel.de  
Department of Oral and Maxillofacial Surgery, Christian-Albrechts-University Kiel, Arnold-Heller-Str. 16, 24105 Kiel, Germany.

**Simon D. Tran**  
simon.tran@mcgill.ca  
Faculty of Dentistry, McGill University, 3640 University St., Montreal QC, Canada.

**Michael Payer**  
mipayer@medunigraz.at  
Department of Oral Surgery and Radiology, School of Dentistry, Medical University Graz, Austria.

**Werner Götz**  
woeozt@uni-bonn.de  
University of Bonn, Dental Clinic, Oral Biology Laboratory, Welschnonnenstr. 17, D-53111 Bonn, Germany.

**Omer Shalal Habeeb**
Izumi Asahina
asahina@nagasaki-u.ac.jp
Department of Regenerative Oral Surgery, Unit of Translational Medicine, Nagasaki University Graduate School of Biomedical Sciences, 1-7-1 Sakamoto, Nagasaki, 852-8588, Japan.

Mutlu Ozcan
mutluozcan@hotmail.com
Dental Materials Unit, Dental School, University of Zurich, Zurich, Switzerland.

Viktor Sevastianov
viksev@yandex.ru
Research Center for Biomaterials, Research Institute of Transplantology and Artificial Organs, Shukinskaya 1, 123182 Moscow, Russia.

Marco Tatullo
marco.tatullo@tecnologicasrl.com Tecnologica Research Institute, Biomedical Section, Crotone, Italy.

Jong-Ho Lee
leejongh@snu.ac.kr
Department of Oral and Maxillofacial Surgery, School of Dentistry, Seoul National University, Seoul, Korea.

Rosamma Joseph
drrosammajoseph@gmail.com
Department of Periodontics, Government Dental College, Calicut-673008, Kerala, India.

Nina Broggini
nina.broggini@zmk.unibe.ch
Department of Oral Surgery and Stomatology, School of Dental Medicine, University of Bern, Bern, Switzerland.