Special Issue

Cartilage and Bone Tissue Engineering for Craniofacial Reconstruction

Message from the Guest Editors

The progress made in bone and cartilage tissue engineering over the last two decades has the potential to address some of the reconstructive challenges within the craniofacial and maxillofacial areas. The current barriers to conventional surgical reconstruction in these areas relate to inadequate autologous tissue supply, donor site morbidity, and extrusion or immune rejection with allogenic or alloplastic implant options. Tissue engineering of autologous tissue can bypass these limitations and theoretically offer grafts in shapes and sizes required for the reconstructive goals. In addition, new technologies in bioprinting can advance the fabrication of new tissue. This Special Issue summarizes current methodologies, highlights recent advances, and presents innovative adjunctive technologies that are likely to impact this field. The articles for this Special Issue will encompass tissue engineering for nasal and ear cartilage reconstruction, bone tissue engineering for craniofacial and maxillofacial areas, and temporomandibular joint regeneration.

Guest Editors

Prof. Dr. Deborah Watson

Department of Otolaryngology-Head & Neck Surgery, University of California San Diego School of Medicine, San Diego, CA, USA

Prof. Dr. Robert L. Sah

Gene Lay-Shu Chien Department of Bioengineering, University of California, San Diego, La Jolla, CA, USA

Deadline for manuscript submissions

closed (25 May 2024)

Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed

mdpi.com/si/153836

Bioengineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie
Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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