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Cartilage and Bone Tissue Engineering for Craniofacial Reconstruction

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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.

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Message from the Editor-in-Chief

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