Special Issue

3D Tissue Models and Biomaterials for Oral Soft Tissue Regeneration

Message from the Guest Editors

The development of 3D Tissue Models and Biomaterials for Oral Soft Tissue Regeneration has become a promising area of research in the regenerative medicine field. These innovative approaches aim to provide solutions for repairing and replacing damaged oral soft tissues, such as gums and mucosa, which are often affected by various oral diseases and injuries. By utilizing advanced techniques such as 3D bioprinting and tissue engineering, researchers are able to create complex and functional tissue models that closely mimic the structure and function of natural oral soft tissues. Biomaterials play a crucial role in these tissue regeneration strategies, as they provide a scaffold for cell growth and tissue formation. These materials can be designed to have specific properties, such as biocompatibility, biodegradability, and mechanical strength, essential for promoting tissue regeneration and integration in the oral environment. By mimicking the structure and function of natural oral tissues, these models and materials offer promising solutions for improving oral soft tissue regeneration procedures and developing personalized therapies for patients in need.

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