



## Biomechanics and Biomaterials in Bone Tissue Engineering

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### Message from the Guest Editor

Biomechanics in bone tissue engineering involve the study of mechanical behaviors and functions of new materials and implants intended for bone regeneration and repair.

Biomaterials in bone tissue engineering are materials used to replace or augment bone tissues injured and diseased, through the promotion of growth and regeneration of bone tissue. These materials must be biocompatible and able to withstand the mechanical stresses placed on them within the body.

Researchers in bone tissue engineering use a variety of biomaterials, including metals, ceramics, and polymers, to create scaffolds that can support the growth of new bone tissue. These scaffolds can be designed to promote the regeneration of bone damaged or lost.

In summary, the fields of biomechanics and biomaterials play important roles in bone tissue engineering by providing insights into the mechanical behaviors and functions of new materials and developing new materials for effective treatments for bone injuries and diseases.





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