

Editorial

Tissue Engineering Strategies Applied in Bone Regeneration and Bone Repair

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Bone regeneration and repair present significant challenges in the field of regenerative medicine. Whether caused by fractures, bone diseases, or trauma, the restoration of damaged bone tissue requires innovative strategies [1]. Tissue engineering has emerged as a promising approach to address these clinical needs by developing novel strategies for bone regeneration and repair [2].

Tissue engineering strategies for bone regeneration often rely on biological approaches that aim to mimic the natural regenerative processes within the body. This includes the use of bioactive scaffolds, growth factors, and stem cells [3]. Bioactive scaffolds provide a three-dimensional structure that mimics the extracellular matrix of bone tissue, creating a favorable microenvironment for cell adhesion, proliferation, and differentiation [4]. These scaffolds can be fabricated from biocompatible materials, such as bioceramics or biodegradable polymers, which gradually degrade over time, allowing new bone tissue to form [5]. Additionally, the incorporation of growth factors, such as bone morphogenetic proteins (BMPs) or vascular endothelial growth factors (VEGFs), can stimulate bone cell recruitment, angiogenesis, and tissue regeneration [6,7]. Stem cells, including mesenchymal stem cells (MSCs) or induced pluripotent stem cells (iPSCs), offer the potential for self-renewal and differentiation into various bone cell lineages, making them valuable tools for bone tissue engineering [8].

In addition to biological approaches, mechanical strategies play a crucial role in bone regeneration and repair. Mechanical stimulation, such as through the application of biophysical forces, has been shown to enhance the healing process [9]. This can be achieved through the use of dynamic mechanical loading, which applies controlled mechanical forces to the regenerating bone tissue. These mechanical stimuli promote cell proliferation, matrix synthesis, and alignment, resulting in improved bone formation and strength [10]. Mechanical approaches can also include the design and fabrication of scaffolds with specific mechanical properties to match the requirements of the regenerated bone tissue [11]. By mimicking the mechanical environment of native bone, these scaffolds can enhance cell attachment, differentiation, and tissue integration.

The ultimate goal of tissue engineering strategies applied in bone regeneration and repair is their successful translation into clinical practice [12]. Several challenges must be addressed for effective clinical implementation, including scalability, standardization, and regulatory approval [13]. Manufacturing processes should allow the production of tissue-engineered constructs in large quantities while maintaining their quality and reproducibility. Standardized protocols and quality control measures are necessary to ensure the safety and efficacy of these therapies. Regulatory agencies play a crucial role in establishing guidelines and evaluating the safety and effectiveness of tissue-engineered products before they can be used in clinical settings [14]. Collaborations between researchers, clinicians, and regulatory bodies are essential to accelerate the translation of tissue engineering strategies into clinical applications.



Citation: Delpierre, A.; Savard, G.; Renaud, M.; Rochefort, G.Y. Tissue Engineering Strategies Applied in Bone Regeneration and Bone Repair. *Bioengineering* **2023**, *10*, 644. <https://doi.org/10.3390/bioengineering10060644>

Received: 17 May 2023

Accepted: 23 May 2023

Published: 25 May 2023



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