

## Special Issue

# Biomaterials in Bone and Cartilage Tissue Engineering

### Message from the Guest Editors

Tissue engineering is an interdisciplinary field that aims to regenerate and repair damaged tissues by combining cells, biomaterials, and growth factors. In particular, bone and cartilage tissue engineering have emerged as promising approaches for the treatment of various musculoskeletal disorders. Biomaterials play a crucial role in these tissue engineering approaches by providing a scaffold for cells to attach, proliferate, and differentiate, as well as by controlling the release of growth factors to promote tissue regeneration. The Special Issue of the journal *Bioengineering* aims to provide a platform for researchers to share their latest findings and advances in the use of biomaterials for bone and cartilage tissue engineering. The scope of the issue includes the design, synthesis, and characterization of biomaterials, as well as their applications in cell culture, animal models, and clinical studies. Topics of interest include, but are not limited to, natural and synthetic biomaterials, scaffolds, hydrogels, micro- and nanofabrication, and drug delivery systems.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2024)



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### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

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