

## Special Issue

# Biomaterials for Cartilage and Bone Tissue Engineering: Second Edition

### Message from the Guest Editor

In the realm of clinical orthopedics, the successful regeneration of weight-bearing bone defects and critical-sized cartilage defects is still challenging. A valid approach to this is tissue engineering. This Special Issue is dedicated to recent developments in biomaterials for scaffolds for repairing and regenerating tissues such as bones, cartilage, tendons, meniscus, and ligaments, from synthesis to production methods. Topics of interest for this Special Issue also include cell-biomaterial surface interactions and bone cell mechanotransduction. I hope that this Special Issue will provide new insights to the scientific community in this ever-expanding research field. The scientific contributions on these topics may be submitted in the form of original articles or reviews. I look forward to receiving your manuscripts.

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### Guest Editor

Dr. Francesca Scalera

Institute of Nanotechnology-CNR NANOTEC, Lecce, Italy

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### Deadline for manuscript submissions

30 September 2025



**Bioengineering**

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### Editor-in-Chief

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