

## Special Issue

# Biomaterials for the Repair and Regeneration of Musculoskeletal Tissue

### Message from the Guest Editor

The use of tissue engineering techniques to augment and improve the healing of multiple-organ systems continues to have a tremendous positive impact on patient health. Improved clinical outcomes are often the direct result of advances in tissue engineering, which are made possible by the dedicated efforts of scientists and the creativity and skill of surgeons. Indeed, the limitations of these amazing biomaterial substates are most often conceived and evaluated by benchtop scientists, but their applications are often limited by the creativity and skill of clinicians. In this Special Issue of *Bioengineering*, titled Biomaterials for the Repair and Regeneration of Musculoskeletal Tissue, we will highlight impactful tissue-healing products and surgical techniques from both science/industry and clinical viewpoints. Readers will come away with new knowledge of immediate clinical applications or techniques to improve clinical outcomes, especially in difficult cases.

---

### Guest Editor

Dr. Christopher Bibbo

Rubin Institute for Advanced Orthopaedics, International Center for Limb Lengthening, Sinai Hospital of Baltimore, 2401 West Belvedere Avenue, Baltimore, MD 21215, USA

---

### Deadline for manuscript submissions

closed (31 March 2026)



Bioengineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.7  
CiteScore 5.3  
Indexed in PubMed



[mdpi.com/si/215438](https://mdpi.com/si/215438)

*Bioengineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[bioengineering@mdpi.com](mailto:bioengineering@mdpi.com)

[mdpi.com/journal/  
bioengineering](https://mdpi.com/journal/bioengineering)





## Bioengineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.7  
CiteScore 5.3  
Indexed in PubMed



[mdpi.com/journal/  
bioengineering](https://mdpi.com/journal/bioengineering)



## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Biomedical)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).