Special Issue

Biomechanics and Biomaterials in Bone Tissue Engineering

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.

Guest Editor

Prof. Dr. Dohyung Lim

Department of Mechanical Engineering, Sejong University, Seoul 05006, Republic of Korea

Deadline for manuscript submissions

closed (30 April 2024)

Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed

mdpi.com/si/172463

Bioengineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

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

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, CAPlus / 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 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.

MDPI