

Special Issue

Biomaterial- and Engineering-Based Approaches for Organoids

Message from the Guest Editor

Organoids, three-dimensional multicellular structures that mimic the architecture and functionality of native tissues, have emerged as powerful tools in biomedical research, drug discovery, and regenerative medicine. The integration of biomaterial- and engineering-based approaches has significantly advanced the development and application of organoids. Biomaterials provide tailored microenvironments that mimic the extracellular matrix, enabling precise control over mechanical, chemical, and biological cues to guide organoid growth, differentiation, and functionality. This interdisciplinary approach holds immense potential for personalized medicine, disease modeling, and tissue engineering, paving the way for breakthroughs in understanding human development, pathology, and therapeutic interventions.

Guest Editor

Prof. Dr. Xiuzhi Susan Sun

Wake Forest Institute for Regenerative Medicine, Wake Forest University School of Medicine, Winston-Salem, NC 27101, USA

Deadline for manuscript submissions

30 September 2025



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.8
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/238028

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

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





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.8
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 16.4 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2024).