# **Special Issue**

## Microfluidic Tissue Culture Platforms

### Message from the Guest Editors

Microfluidic technology has revolutionized the field of cell and tissue culture, offering unprecedented opportunities for the study of cell behavior, tissue function, and disease mechanisms. Microfluidic tissue culture platforms provide a unique environment that can closely mimic the in vivo microenvironment, allowing for more accurate and physiologically relevant modeling of biological processes. This Special Issue aims to highlight the latest advancements and applications of microfluidic tissue culture platforms in various fields, including regenerative medicine, drug discovery, and cancer research.

We invite contributions from diverse fields including the following:

The design and fabrication of microfluidic devices for tissue cultures

The integration of multiple cell types and biomaterials to recreate complex tissue structures

The use of microfluidic platforms for studying cell-cell interactions, drug responses, and disease modeling  $\boxtimes$ 

Exploring new techniques and technologies that enhance the functionality and versatility of microfluidic tissue culture platforms, such as the incorporation of sensors, actuators, and imaging modalities for real-time monitoring and analysis.

### Guest Editors

Dr. Ying Wang Department of Biomedical Engineering, Binghamton University, State University of New York (SUNY), Binghamton, NY 10001, USA

Prof. Dr. Sudip K. Das College of Pharmacy and Health Sciences, Butler University, Indianapolis, IN 46208, USA

### Deadline for manuscript submissions

closed (31 August 2024)



### Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.3 Indexed in PubMed



mdpi.com/si/199647

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





## 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.