

## Special Issue

# Tissue Engineering Scaffolds in Regenerative Medicine

### Message from the Guest Editors

Though great progress has been made in medicine over the years, however, current clinical approaches are not enough to meet a significant number of clinical disorders due to disease, trauma, congenital abnormalities, or ageing. Organ or tissue transplantation is a standard therapy to treat these patients. Irony of fact that many of these people will die due to the paucity of donor organs and high processing cost involved in organ transplantation. In this regard, tissue engineering and regenerative medicine (TERM) is a game-changing area of medicine with the potential to fully heal damaged tissues and organs and is promoting the move towards “cells as pills”. Tissue engineering scaffolds – that mimic the native extracellular matrix (ECM) – play a vital role in providing an environment that facilitates cellular growth, differentiation, and maturation. However, it’s still a critical engineering challenge to design clinically relevant scaffolds in a congenial and sustainable approach. Moreover, we know little how mechanical properties of the scaffolds regulate various cellular processes such as cell division, stem cell differentiation and cancer progression.

---

### Guest Editors

Dr. Kamol Dey

Prof. Dr. Barbara Nebe

Prof. Dr. Luciana Sartore

---

### Deadline for manuscript submissions

closed (31 October 2024)



## Bioengineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.8  
CiteScore 4.0  
Indexed in PubMed



[mdpi.com/si/162408](https://mdpi.com/si/162408)

*Bioengineering*  
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 3.8  
CiteScore 4.0  
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 15.6 days after submission; acceptance to publication is undertaken in 3.1 days (median values for papers published in this journal in the first half of 2024).

#### 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.