

## Special Issue

# Stem Cell Bioprocessing and Tissue Reconstruction

### Message from the Guest Editors

Bioprocessing technologies for stem cell therapy are one of the most promising approaches for the further advancement of tissue engineering and regenerative medicine. Technologies developed for stem cell therapy have also stimulated the development of new fields such as cultured meat. The development of successful stem cell bioprocessing and tissue reconstruction faces two key challenges that must be addressed, including: (i) the development of dynamic, heterogeneous structures for cell and tissue culture-engineering platforms; and (ii) the advancement of technologies for low-cost, reproducible and high-quality engineered manufacturing processes. This Special Issue, Stem Cell Bioprocessing and Tissue Reconstruction, addresses the potential of stem cell and stem cell-based products for clinical and industrial applications by bringing together contributions from international experts on stem cell and tissue engineering, bioreactor design and scale-up, process automation and the manufacturing of stem cell-based therapies.

### Guest Editors

Dr. Meehae Kim

Department of Biotechnology, Graduate School of Engineering, Osaka University, Suita, Osaka, Japan

Dr. Kazunori Shimizu

Department of Biomolecular Engineering, Nagoya University, Nagoya, Aichi, Japan

### Deadline for manuscript submissions

closed (15 June 2023)



## Bioengineering

an Open Access Journal  
by MDPI

Impact Factor 3.8  
CiteScore 4.0  
Indexed in PubMed



[mdpi.com/si/117059](https://mdpi.com/si/117059)

*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 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).