

## Special Issue

# Mechanobiology and Cellular Mechanotransduction: Basic Science and Clinical Implications

### Message from the Guest Editor

For decades, scientists have observed that mechanical forces influence cellular biological events in physiology and pathology. Moreover, growing evidence indicates that the mechanical properties of the surrounding microenvironments also impact cellular function. Advancements in the study of mechanotransduction – the conversion of mechanical signal inputs into biological events – has improved our understanding of how mechanical stimuli affect our health and diseases through regulation of cellular behavior and tissue development. This Special Issue “Mechanobiology and Cellular Mechanotransduction: Basic Science and Clinical Implications” will publish original research and current review papers with the aim of providing the readers with the cutting-edge findings and innovative application of mechanobiology.

---

### Guest Editor

Prof. Dr. Jiro Nagatomi

Department of Bioengineering, Clemson University, Clemson, SC  
29634, USA

---

### Deadline for manuscript submissions

closed (30 October 2021)



Bioengineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.8  
CiteScore 4.0  
Indexed in PubMed



[mdpi.com/si/78116](https://mdpi.com/si/78116)

*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.