

## Special Issue

# Machine Learning-Based Heart, Brain and Nerve Tissue Engineering

### Message from the Guest Editor

The last decade has seen a unprecedented growth in the success of machine learning in a variety of applications. We have also seen a fast growth in the use of advanced machine learning techniques in biomedical related applications. However, researchers face new challenges in dealing with these biomedical data. For example, labeled biomedical data is limited and the labeling is expensive. Furthermore, significant subject variability challenges the performance of the algorithms for real-life use. In this Special Issue, we would like to invite submissions for innovative research in the development of advanced machine learning algorithms, efficient implementation of such algorithms and smart point-of-care and wireless devices for biomedical applications in heart, brain and nerve tissue.

---

### Guest Editor

Dr. Chung Tin

Department of Biomedical Engineering, City University of Hong Kong, Hong Kong

---

### Deadline for manuscript submissions

closed (18 March 2022)



**Bioengineering**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.7**  
**CiteScore 5.3**  
**Indexed in PubMed**



[mdpi.com/si/86057](https://mdpi.com/si/86057)

*Bioengineering*  
Editorial Office  
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 3.7  
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 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.