## Special Issue

# Computational Biomechanics, Volume II

## Message from the Guest Editor

The second edition of this Special Issue, "Computational Biomechanics", is dedicated to recent research advances in mathematical and computational modeling of biological tissues, ranging from cells to bones and soft tissues, as well as non-biological materials such as prosthetic and orthotic devices. It aims to present stateof the-art research in this emerging multidisciplinary field involving engineering sciences, medicine, health, and ergonomics, which has the potential to revolutionize the ways of improving health and quality of life for millions of people worldwide. Specific topics of interests in this Special Issue include (but are not limited to): Cell biomechanics: Cardiovascular biomechanics: Joint biomechanics; Injury biomechanics; Orthopedic biomechanics: Computational models/constitutive formulations for biological tissues; Computer-assisted surgery and simulation; Computer-aided design and assessment of medical devices, protheses, and implants; Damage and rupture modeling for tissues; Mathematical modeling of growth and remodeling; Multimodal/multiscale modeling of biological tissues and engineered biomaterials.

#### **Guest Editor**

Dr. Kwong Ming Tse

Department of Mechanical and Product Design Engineering, Swinburne University of Technology, Melbourne 3122, Australia

### Deadline for manuscript submissions

closed (31 March 2024)



## **Bioengineering**

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.3 Indexed in PubMed



mdpi.com/si/162956

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.

