



biology



an Open Access Journal by MDPI

Mechanobiology 2.0

Guest Editor:

Dr. Tae-Jin Kim

Department of Biological Sciences, Pusan National University, Pusan 46241, Republic of Korea

Deadline for manuscript submissions:

31 December 2024

Message from the Guest Editor

Dear Colleagues,

The field of mechanobiology has recently emerged at the interface of biology, medicine, biophysics, and bioengineering. In general, it refers to the study of how biological components such as cells, tissues, and organs perceive and respond to mechanical cues to regulate various biological processes, such as development, differentiation, physiology, and disease.

This Special Issue aims to gather and present original reports, scientific articles, communications, and reviews discussing the latest advances in the field of mechanobiology in all its facets. Topics include, but are not limited to, the following: mechanobiology in stem cells; mechanobiology in cancer; mechanobiology in physiology; mechanobiology in the nucleus (e.g., nuclear mechanics, gene/genome regulation); mechanobiology in tissue development and homeostasis; mechanobiology in health and disease; mechanobiology in plants; cellular mechanosensing, mechanotransduction, and mechanoreponse; biomechanics; innovative approaches to mechanobiology research.

Dr. Tae-Jin Kim

Guest Editor



mdpi.com/si/148731

Special Issue



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Contact Us

Biology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biology
biology@mdpi.com
[X@Biology_MDPI](https://twitter.com/Biology_MDPI)