



Biomedical Advances in ABC Transporters: From Bench to Bedside

Guest Editor:

Dr. Jyh-Yeuan Lee

Department of Biochemistry,
Microbiology and Immunology,
Faculty of Medicine, University of
Ottawa, Ottawa, ON, Canada

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editor

The goal of this Special Issue, “Biomedical Advances in ABC Transporters: from Bench to Bedside”, is to present the state-of-the-art of our current knowledge about the roles and mechanisms of ABC transporters. Topics include but are not limited to:

- Bioinformatics and molecular evolution of ABC transporters;
- Structure–function relationship on ABC transporter-associated human diseases;
- ABC transporters v.s. multidrug resistance;
- Metabolism v.s. ABC transporters;
- Roles of ABC transporters in infectious diseases;
- Cell and animal models to study ABC transporters in human physiology and disease pathology;
- Drug discovery and drug design on the basis of structural and molecular findings;
- Targeted therapies to rescue defective ABC transporters;
- Targeted therapies to modulate ABC transporter functions;
- Perspectives related to genetic or functional defects of ABC transporters;
- Clinical trials and population-based studies in ABC transporter-associated disorders;
- Rare genetic diseases associated with ABC transporters.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research

Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA

2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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](#), [CAPUS / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Medicine (miscellaneous)*)

Contact Us

Biomedicines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
[X@Biomed_MDPI](#)