

## Special Issue

# ABC Transporters: From Basic Functions to Diseases

### Message from the Guest Editor

ATP-binding cassette (ABC) transporters play crucial roles in transport of various kinds of endogenous metabolites such as bile acids, sterols, lipids, and peptides, and exogenous molecules such as antibiotics, toxins, and drugs. A number of studies in this field have revealed that several of these transporters were mutated in human disorders and that they contributed to multi-drug resistances in cancer chemotherapy as well as showed that single nucleotide polymorphisms (SNPs) in their genes determine the pharmacokinetics of various drugs and contribute to the development of various diseases. We invite authors to submit original research as well as review articles that will help in understanding of the impacts of ABC transporters and their gene polymorphisms on human health, including pathogenesis of multifactorial disorder such as metabolic diseases, pharmacokinetics of drugs and multi-drug resistances in cancer chemotherapy. This Special Issue should improve our understanding of ABC transporters and also pave the way for alternative therapeutic strategies and development of diagnostic and therapeutic approaches to some disease treatments.

---

### Guest Editor

Dr. Hiroshi Nakagawa

Department of Applied Biological Chemistry, Graduate School of Bioscience and Biotechnology, Chubu University, Kasugai, Japan

---

### Deadline for manuscript submissions

closed (30 December 2019)



## Cells

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.1  
CiteScore 9.9  
Indexed in PubMed



[mdpi.com/si/19526](https://mdpi.com/si/19526)

*Cells*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[cells@mdpi.com](mailto:cells@mdpi.com)

[mdpi.com/journal/  
cells](https://mdpi.com/journal/cells)





# Cells

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.1  
CiteScore 9.9  
Indexed in PubMed



[mdpi.com/journal/  
cells](https://mdpi.com/journal/cells)



## About the Journal

### Message from the Editorial Board

*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

---

### Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE,  
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,  
Copenhagen, Denmark

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).