

# Special Issue

## Ion Channels in Cancer

### Message from the Guest Editors

Membrane voltages have long been observed to contribute to intracellular mitogenic signaling and participate in cell proliferation, survival and apoptosis. In the brain, the interplay between action potential and mitogenic signaling is central to long-term potentiation and memory. Pathologically, cancer cells are more depolarized than their normal counterparts. Indeed, targeting ion channels has been suggested as a novel strategy to treat cancer. However, mechanisms underlying the correlation between ion channels and cancer signaling have been largely elusive. The current special issue focuses on the potential molecular mechanisms mediating how ion channels communicate with intracellular mitogenic cascades and impact cancer signaling.

### Guest Editors

Dr. Michael X. Zhu

Department of Integrative Biology and Pharmacology, McGovern Medical School, University of Texas Health Science Center at Houston, Houston, TX 77030, USA

Dr. Yong Zhou

1. Department of Integrative Biology and Pharmacology, McGovern Medical School, University of Texas Health Science Center, Houston, TX 77030, USA

2. Biochemistry and Cell Biology Program, Graduate School of Biomedical Sciences, MD Anderson Cancer Center and University of Texas, Houston, TX 77030, USA

### Deadline for manuscript submissions

closed (15 August 2023)



# Cells

an Open Access Journal  
by MDPI

Impact Factor 5.1  
CiteScore 9.9  
Indexed in PubMed



[mdpi.com/si/148681](https://mdpi.com/si/148681)

*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).