



*cells*



an Open Access Journal by MDPI

## Ion Channels in Cancer: An Update

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:

**30 September 2024**

### Message from the Guest Editors

Dear Colleagues,

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 potentials 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. This Special Issue focuses on the potential molecular mechanisms mediating how ion channels communicate with intracellular mitogenic cascades and impact cancer signaling.

Dr. Michael X. Zhu

Dr. Yong Zhou

*Guest Editors*



[mdpi.com/si/194929](https://mdpi.com/si/194929)

# Special Issue



*cells*



an Open Access Journal by MDPI

## 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

## 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.

## 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](#), [MEDLINE](#), [PMC](#), [CAPlus / SciFinder](#), and [other databases](#).

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

## Contact Us

---

*Cells* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/cells](http://mdpi.com/journal/cells)  
[cells@mdpi.com](mailto:cells@mdpi.com)  
[X@Cells\\_MDPI](#)