







an Open Access Journal by MDPI

Advance in Ion Channel Signaling in Cancer Cells

Collection Editors:

Dr. Bruno Constantin

Laboratoire STIM, Université de Poitiers-CNRS ERL 7003, Poitiers, France

Prof. Dr. Valérie Coronas

Laboratoire STIM, Université de Poitiers-CNRS ERL 7003, Poitiers, France

Message from the Collection Editors

he large family of membrane-spanning ion channels contributes significantly to the transmission integration of extracellular signals, both chemical and mechanical, that originate from the microenvironment and stroma where the cells reside. A growing body of studies points to a crucial role of ion channels in the dynamics of neoplastic cells. This collection will gather special contributions showing how cancer cells hijack the physiological functions of different types of ion channels and how changes in their activity and/or expression contribute to the neoplastic phenotype. This Special Issue will also address the involvement of ion channels in a rare subpopulation of cells called cancer stem cells that possess the potential to initiate and sustain tumour growth and to regenerate the tumour after the cessation of treatment. This collection also aims to report the recent developments on the molecular mechanisms, e.g., ion transport or noncanonical channel functions, whereby ion channels contribute to various extents to pathophysiological features of cancer hallmarks.

We look forward to your contribution in the form of original research or review articles.













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