



cells



an Open Access Journal by MDPI

Calcium Signaling in Health and Diseases

Guest Editors:

Dr. Tim Verviet

KU Leuven Laboratory of
Molecular Cellular Signaling,
Department Cellular and
Molecular Medicine, Leuven,
Belgium

Dr. Dhanendra Tomar

Center for Translational
Medicine, Lewis Katz School of
Medicine of Temple University,
Philadelphia, PA 19140, USA

Deadline for manuscript
submissions:

closed (28 February 2022)

Message from the Guest Editors

Ca²⁺ signaling is involved in a myriad of cellular functions, including cell death, cell survival, autophagy, muscle contraction, and memory formation. Abnormalities in intracellular Ca²⁺ signaling have been shown to lead to defects in several organellar functions, resulting in cellular dysfunction and potential cell death. As such, it comes as no surprise that in numerous pathologies, dysregulated Ca²⁺ signaling plays a critical, early role in disease onset. Understanding how the cellular Ca²⁺ toolkit is organized and how it can be modulated is thus critical to further increase understanding of how pathologies arise and can be treated. Given the Ca²⁺ toolkit, its central role in many cellular functions provides a challenging yet interesting potential drug target pool to explore.

This Special Issue aims to highlight recent findings on how Ca²⁺ signaling regulates cellular functions, with the main focus being on how organellar function is affected in both physiological and pathophysiological conditions.



mdpi.com/si/83762

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

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](#)