Special Issue

The Role of Calcium Conducting and Calcium Regulated Channels in Human Health and Disease

Message from the Guest Editors

Calcium and its molecular signaling in cells and cell organelles are vital processes throughout the life cycle of the majority of cells. This includes the regulation of ion channels by calcium and the regulation of calcium by ion channels. The scope of this Special Issue, titled "The Role of Calcium Conducting and Calcium Regulated Channels in Human Health and Disease", to be published in the International Journal of Molecular Science, is to integrate research on channel-mediated calcium signaling in both excitable and non-excitable cells, under physiological and pathophysiological conditions. This refers to calcium channels, nonselective cation channels and calcium-activated ion channels, and includes investigations based on molecular biology, patch-clamp and all other functional evidence for ion channel activity. The ion channels can be characterized in vivo, in isolated primary cells or tissues, and in model cells, but also in cell-free systems, such as black lipid membranes. This Special Issue considers original research, new methodological approaches, and short or comprehensive reviews.

Guest Editors

Prof. Dr. Ingolf Bernhardt Laboratory of Biophysics, Faculty of Natural Science and Technology, Saarland University, 66123 Saarbrücken, Germany

Prof. Dr. Lars Kaestner

Theoretical Medicine and Biosciences, Medical Faculty, Saarland University, 66421 Homburg, Germany

Deadline for manuscript submissions

closed (30 June 2023)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/121395

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/

ijms





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)