



an Open Access Journal by MDPI

Structure and Properties of Proteins Involved in Ca²⁺ Transport and Homeostasis

Guest Editors:

Prof. Dr. Giuseppe Zanotti

Department of Biomedical Sciences, University of Padua, 35131 Padova, Italy

Dr. Tito Calì

 Department of Biomedical Sciences, University of Padova, Padova, Italy
Padova Neuroscience Center (PNC), University of Padova, Padova, Italy

Deadline for manuscript submissions: closed (31 May 2021)

Message from the Guest Editors

It is difficult to underestimate the role of Ca²⁺ in the cell functioning since calcium ions play a fundamental role in many cellular processes. Ca2+ actively participates in a variety of cell signaling pathways by binding to several calcium-binding proteins. Calcium transport in and out of the cell membrane is strictly regulated through the use of pumps and channels and, once inside the cell, Ca²⁺ is stored in specific compartments or bound to specific proteins that keep its free concentration at the proper value. The structure of most of the proteins involved in calcium transport and homeostasis is currently known, and their functioning mechanism has been partially clarified. The goal of this Special Issue is to produce an up-to-date summary of the present knowledge of the structurefunction relationship of the proteins involved in this process.

We encourage the submission of both original research articles and topical reviews on proteins involved in Ca²⁺ transport and homeostasis. All submitted articles will undergo peer review.









an Open Access Journal by MDPI

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

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.

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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

International Journal of Molecular Sciences Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/ijms ijms@mdpi.com X@IJMS_MDPI