

Special Issue

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

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 structure–function 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.

Guest Editors

Prof. Dr. Giuseppe Zanotti

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

Dr. Tito Cali

1. Department of Biomedical Sciences, University of Padova, Padova, Italy

2. Padova Neuroscience Center (PNC), University of Padova, Padova, Italy

Deadline for manuscript submissions

closed (31 May 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/67845

*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](https://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



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



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)