



## Role of Ion Channels in Human Health and Diseases

Guest Editor:

**Prof. Dr. Sheng-Nan Wu**

Department Physiology, College  
of Medicine, National Cheng  
Kung University, Tainan 70101,  
Taiwan

Deadline for manuscript  
submissions:

**20 December 2024**

### Message from the Guest Editor

Dear Colleagues,

Ion channels are pathways across cell membranes. These channels are highly selective for ion permeability and exhibit different gating kinetics. Changes in the activity of these various ion channels can cause alterations in the cell membrane potential and the firing patterns of action potentials in electrically excitable cells. Recent data indicate that abnormalities in the function of these ion channels, whether regarding the loss of function or gain of function, are closely related to the mechanisms of many diseases and their pharmacological treatments. These specific diseases include epileptic disorders, different cardiac arrhythmias, and certain endocrine disorders. Therefore, we earnestly hope that researchers in this field will actively publish and share their latest and most interesting findings with us.

Prof. Dr. Sheng-Nan Wu

*Guest Editor*





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 and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI