



## Channels and Transporters in Cells and Tissues

Guest Editor:

**Dr. Graça Soveral**

Faculdade de Farmacia,  
Universidade de Lisboa,  
Research Institute for Medicines  
(iMed.Ulisboa), Lisbon, Portugal

Deadline for manuscript  
submissions:

**closed (31 December 2019)**

### Message from the Guest Editor

Channels and transporters are membrane proteins that mediate the traffic of water, ions, and solutes across biological membranes and are crucial to maintaining homeostasis assuring cell survival upon intracellular or environmental stress. This Special Issue “Channels and transporters in cells and tissues” will focus on the function and regulation of membrane transport proteins across all living organisms, including their potential as drug targets. Authors are invited to submit original research and review papers addressing the topic of this Special Issue.

### Keywords

- Membrane transport and regulation
- Structure–function relationship
- Water, ions, and solutes transport
- Membrane permeability
- Osmoregulation
- Chemical modulation
- Therapeutic application
- Drug discovery
- Disease
- Prokaryotic and eukaryotic cells





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