



## Aquaporins: Water Channels Essential for Living Organisms 2.0

Guest Editor:

**Prof. Dr. Christine Delporte**

Laboratory of Pathophysiological  
and Nutritional Biochemistry,  
Faculty of Medicine, Université  
Libre de Bruxelles, 808 Route de  
Lennik, Blg G/E CP 611, Brussels  
B-1070, Belgium

Deadline for manuscript  
submissions:  
**closed (31 May 2019)**

### Message from the Guest Editor

Dear Colleagues,

Water is essential for life. The discovery of water channels, also called aquaporins, provided the molecular explanation for the existence of facilitated passive transmembrane water transport. Aquaporins are characterized by a highly conserved structure, especially in the vicinity of the water pore. Aquaporins are present in all living organisms, including vertebrates, invertebrates, microorganisms and plants, and are involved in many living processes, and in diseases. This Special Issue of the *International Journal of Molecular Sciences*, “Aquaporins: Water Channels Essential Transmembrane Proteins for Living Organisms” will focus on the function of aquaporins across all living organisms, including their potential utility in medicine. Authors are invited to submit their contributions that will meet the focus of this Special Issue.

Prof. Dr. Christine Delporte  
*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