



## Recent Advances in Hydrogen Bonding

Guest Editor:

**Dr. Irena Majerz**

Faculty of Pharmacy, Wrocław  
Medical University, Borowska  
211a, 50-556 Wrocław, Poland

Deadline for manuscript  
submissions:

**closed (31 July 2023)**

### Message from the Guest Editor

Due to the frequent occurrence and importance of hydrogen bonding as a factor responsible for the arrangement of molecules in crystals, solutions and the gas phase, which determines the properties of matter, hydrogen bonding is important in chemistry and physics. It is also important in biological and medical research, drug interactions, the search for new materials and structural research.

For many years, the intensity of the research and its wide scope covering an increasing variety of hydrogen bonding systems not only deepens the understanding of hydrogen bonding but also identifies a number of specific systems characterized as improper hydrogen bonding. Therefore, it is necessary to redefine hydrogen bonds and distinguish them from other interactions.

This Special Issue is dedicated to all studies that indicate the importance of hydrogen bonding as an interaction determining various properties of the molecular systems under study, as well as focusing on the problems of describing hydrogen bonding as such.





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, CAPus / 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