



## Bio-Nano Interactions 2.0

Guest Editor:

**Prof. Dr. Massimiliano Magro**

Department of Comparative  
Biomedicine and Food Science,  
University of Padua, Viale  
dell'Università 16, 35020 Legnaro,  
Italy

Deadline for manuscript  
submissions:

**closed (30 April 2023)**

### Message from the Guest Editor

The story of materials from living (biotic) organisms is intensely intertwined with one of inanimate (abiotic) materials, which might have played a crucial role in the chemical evolution in the prebiotic era and, therefore, in the origin of life. Nanoparticles and proteins are entities of the same size range and the understanding and the prediction of the interactions between proteins and nanoparticles represents the Holy Grail in nanoscience. Indeed, the crucial challenge is to endow nanoparticles of protein-like specificity with the ability to enable the abiotic material to specifically interact with all components of biological systems such as peptides, proteins, lipids, DNA, receptors, cells and whole organisms, including humans or animals.

The Special Issue “Bio-Nano Interactions 2.0” encourages the publication of papers that expand the existing perspectives on smart synthetic nanomaterials and on their interplay with biological interfaces.





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