



## Protein-Protein and Protein-Ligand Interactions: Current Challenges and Perspectives

Guest Editor:

**Dr. Mariapina D'Onofrio**

Department of Biotechnology,  
University of Verona, Verona, Italy

Deadline for manuscript  
submissions:

**closed (31 March 2022)**

### Message from the Guest Editor

Protein–protein and protein–ligand interactions play central roles in all processes of living organisms, participating in their activation and regulation. The identification of the actors of cellular networks based on molecular recognition, as well as the clear definition of the transient and persistent interactions are crucial to elucidate biomolecular communication pathways

A key aspect to advance our knowledge is the availability of reliable novel bioinformatic methods to efficiently predict protein interactions as well as the development and improvement of experimental approaches to fully characterize the structure and thermodynamics of functional biomolecular associations to unveil biologically relevant pathways.

In this Special Issue of *IJMS*, we aim to collect contributions in the form of either original research articles or reviews, to add new insight into the role of protein–protein and protein–ligand interactions in biological processes and to highlight the state of the art, the challenges, and the open issues in this varied field of investigation.





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