



## HLA Molecules and Beyond

Guest Editors:

**Prof. Dr. Stephanie Gras**

**Dr. Jerome Le Nours**

**Dr. Christopher Szeto**

**Dr. Dimitra Chatzileontiadou**

Deadline for manuscript  
submissions:

**closed (31 August 2021)**

### Message from the Guest Editors

Since the first description and characterisation of peptide-binding HLA molecules in 1987, we have developed a deeper understanding of the diversity of the peptide repertoire (length, post-translational modification, motif, chemical properties) that the classical HLAs can present, as well as their corresponding immune response. In addition, we also know that antigen-presenting molecules can bind to lipids, small metabolites, or even drugs, and that with the further advances of comparative immunology, there is no doubt that new and uncharacterised ligands will be discovered.

A deep characterisation of those molecules and the type of ligand they are able to bind and present to the immune system is critical to understand the infection and outcome of a disease, to provide new therapeutics and vaccines, as well as understanding the fundamental interplay between the different molecules of the immune system.

Therefore, we are calling for research articles, reviews, and opinion pieces focusing on antigen presenting molecules encompassing HLA and beyond the classical HLA molecules.





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