



## Innate and Adaptive Immunity in COVID-19

Guest Editors:

**Prof. Dr. Vincenzo Barnaba**

**Prof. Dr. Manlio Ferrarini**

**Prof. Dr. Jeffrey L. Platt**

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

The scope of this Special Issue is, to provide insight into (i) the different facets of immunopathology supporting the phenomena associated with severe COVID-19, such as lymphopenia, impaired response to interferon, and “cytokine storm”; (ii) the immunoregulatory mechanisms addressed at controlling excessive inflammatory responses without excessively limiting the antiviral immune responses; and (iii) the differences in innate and adaptive immune responses between infected patients and vaccinated individuals, deciphering both immunopathology and protection signatures. This research will provide useful information to set up new therapeutic strategies and to develop new vaccines that prevent viral immune escape and the selection of new variants.

Prof. Dr. Vincenzo Barnaba

Prof. Dr. Manlio Ferrarini

Prof. Dr. Jeffrey L. Platt

Guest Editors





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