



## Molecular Advances in Resistance and Adaptability of Wheat Crops

Guest Editor:

**Prof. Dr. Hongjie Li**

Institute of Crop Sciences,  
Chinese Academy of Agricultural  
Sciences, #12 South Zhong-Guan  
Cun Street, Beijing 100081, China

Deadline for manuscript  
submissions:

**closed (30 April 2024)**

### Message from the Guest Editor

Wheat (*Triticum aestivum* L.) is the most widely adapted and grown cereal crop worldwide, and provides approximately 20% of daily calories for more than 4.5 billion people. It is estimated that an increase of 70% in yield will be required by 2050 in order to protect food security for an increasing global population. Wheat production is vulnerable to various biotic and abiotic stresses, such as low or high temperature, drought, high salinity, diseases and insects. There is a need to increase wheat production while reducing losses caused by abiotic and biotic stresses. Therefore, the scope of this Special Issue included advancements and the latest status on the dissection of the genetic basis of resistance to biotic and abiotic stresses and adaptability to the changing climates, the discovery of new crucial genes and their molecular regulatory networks, as well as molecular breeding for these traits.

Dr. Hongjun Zhang (zhanghongjun01@caas.cn) is co-Guest Editing this Special Issue with me. Please feel free to contact me or Dr. Zhang for details about this Special Issue.





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