## **Special Issue**

## New Advances in Genetic and Molecular Mechanisms Underlying Agronomic Traits in Crops

## Message from the Guest Editor

Agronomic traits are biological traits or processes in field crops, vegetable crops, fruit trees, and other species that are beneficial to agriculture as well as human wellbeing. The superior performance of agronomic traits is the foundation of all crop varieties used for agricultural production; therefore, advanced understanding of the genetic and molecular bases underpinning the performance of agronomic traits is crucial to improving or sustaining world food supplies. Recent studies, especially genetic, molecular, and genomic studies of agronomic traits using technologies powered by high-throughput sequencing and/or artificial intelligence (AI), including quantitative trait locus (QTL) mapping, genome-wide association studies (GWASs), molecular cloning and analysis of agronomic genes, etc., have dramatically advanced the knowledge of the genetic and molecular mechanisms underlying agronomic traits. This Special Issue will be focused on new advances in the research of agronomic traits, thereby contributing to crop genetic improvement and enhanced world food production.

## **Guest Editor**

Prof. Dr. Hongbin Zhang

Department of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843, USA

## Deadline for manuscript submissions

20 November 2025



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/223181

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





## 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.

### **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

### **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 (Organic Chemistry)

