



Mapping Abiotic Stress-Tolerance Genes in Plants

Guest Editor:

Dr. Richard R.-C. Wang

Forage and Range Research Lab,
Utah State University, Logan, UT
84322-6300, USA

Deadline for manuscript
submissions:

closed (30 September 2019)

Message from the Guest Editor

Dear Colleagues,

Tolerance to abiotic stresses caused by environmental conditions can prevent yield loss in crops for sustaining agricultural productivity. For each crop or plant species, there are many abiotic threats such as changes in temperature, soil salinity, water shortage, and soil contaminants. Plants need to possess genes conferring tolerance to these abiotic stresses to adapt to the changing environment in which they are being grown. Foreseeing climate changes, plant breeders are undertaking efforts to identify and transfer genes for tolerance to high/low temperature, soil salinity/alkalinity, drought, or heavy metals, into new cultivars. Plant molecular geneticists have identified many physiological pathways and mechanisms involved in tolerance to various abiotic stresses in some plants. Many metabolites, enzymes, and transcription factors associated with tolerance to these abiotic stresses have been identified. With the advent of whole-genome sequencing in many important crops, it is time to map the detailed chromosomal locations of known genes that are involved in conferring tolerance to various abiotic stresses in each crop.

Dr. Richard R.-C. Wang
Guest Editor





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