



life



an Open Access Journal by MDPI

Recent Advances in Plant Genes for Abiotic Stress Resistance

Guest Editors:

Dr. Guiyan Yang

College of Forestry, Northwest A & F University, Yangling 712100, China

Dr. Zhenggang Xu

College of Forestry, Northwest A & F University, Yangling 712100, China

Dr. Wenhui Zhang

College of Agriculture, Heilongjiang Bayi Agricultural University, #5 Xin Feng Street, Gao Xin District, Daqing, China

Deadline for manuscript submissions:

closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

Abiotic stress, including but not limited to heavy metal pollution, drought, extreme temperature, salinity, element deficiency, etc., has an important influence on plant growth and development. In order to adapt to abiotic stress, plants respond at different scales (genetics, physiology, morphology, function, etc.). Research activity on plant genetics for abiotic stress resistance not only has the aim to understand the molecular mechanisms of plant response to adverse environments, but also the basis for application (e.g., phytoremediation, resistance breeding).

To understand the advances in plant genetics regarding abiotic stress resistance, we have launched this Special Issue. We welcome research on all aspects of abiotic stress biology, including fundamental insights into the understanding of plant responses to abiotic stresses and the use of biotechnological and other strategies to improve the resistance/tolerance of plants to abiotic stresses. Of course, related bioinformatics research (e.g., software development) is also within the scope of our publications.

Dr. Guiyan Yang

Dr. Zhenggang Xu

Dr. Wenhui Zhang

Guest Editors



mdpi.com/si/124081

Special Issue



life



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us

Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)