

Special Issue

Physiological and Molecular Mechanisms of Plant Stress Tolerance

Message from the Guest Editors

Ensuring food security for the increasing global population is one of the challenges that must be addressed in the coming decades. Plant biologists and agronomists are the most responsible for the steady improvement of crop production. However, there are several challenges that hinder crop production, including various abiotic (salt, drought, flooding, metal/metalloid toxicity, extreme temperature, etc.) and biotic stresses (weeds, insects, pathogens, etc.). Plants are sessile organisms and cannot avoid such stressors. Plants' survival under adverse environments is dependent on various defense mechanisms. Therefore, understanding such physiological and molecular mechanisms of plant stress tolerance is one of the vital tasks for plant biologists and agronomists. In this Special Issue, we aim to publish research articles and reviews on various aspects of crop responses and tolerance to abiotic and biotic stresses, which will also serve as a foundation for crop production under stressful conditions.

Guest Editors

Prof. Dr. Mirza Hasanuzzaman

Dr. Tika Adhikari

Prof. Dr. Luigi Sanita' di Toppi

Deadline for manuscript submissions

closed (31 January 2023)



Stresses

an Open Access Journal
by MDPI

CiteScore 6.9



mdpi.com/si/120974

Stresses
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
stresses@mdpi.com

[mdpi.com/journal/
stresses](https://mdpi.com/journal/stresses)





Stresses

an Open Access Journal
by MDPI

CiteScore 6.9



[mdpi.com/journal/
stresses](https://mdpi.com/journal/stresses)



About the Journal

Message from the Editor-in-Chief

Stresses is an open access international journal publishing top quality research covering all aspects of how humans, animals, plants, algae, fungi, bacteria, and viruses respond to abiotic and biotic stresses. The thinking behind *Stresses* is substantially inspired by the pioneering studies on the effects and responses to various stressors performed by the eminent scientist Hans Selye. Submissions from basic and applied research are welcome, as long as they are based on a clearly defined mechanistic hypothesis. Review manuscripts are encouraged, but they must be a critical review of existing literature and not just a summary. All submitted manuscripts will be subjected to a thorough peer-reviewing process.

Editor-in-Chief

Dr. Monica Ruffini Castiglione

Department of Biology, University of Pisa, Via Luca Ghini 13, I-56126
Pisa, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.2 days after submission; acceptance to publication is undertaken in 4.1 days (median values for papers published in this journal in the first half of 2025).