

Special Issue

Breeding of Horticultural Crops for Trait Improvement and Stress Resilience

Message from the Guest Editors

This Special Issue will encompass different aspects of novel approaches to stress tolerance, such as the use of multi-omics tools along with emerging genome engineering tools that can expand our understanding of how plant's physiology is modulated in response to the changing environmental conditions, the molecular mechanisms underlying stress tolerance in plants and our understanding of gene function. The use of such tools in horticultural breeding is expected to revolutionize the trait improvement of horticultural crops. Furthermore, the interaction with beneficial microorganisms to induce stress resilience will offer new insights into targeted breeding programs. This Special Issue invites contributions of original research and review/mini-review articles on recent advancements in the field, specifically on trait improvement and stress resilience in horticultural crops, using integrated omics-oriented approaches and modern breeding tools. Contributions highlighting the usefulness of new genotyping, phenotyping and modelling techniques to improve the understanding and prediction of complex traits in breeding programs are welcome.

Guest Editors

Dr. Evangelia Stavridou
Dr. Panagiotis Madesis
Dr. Irini Nianiou-Obeidat

Deadline for manuscript submissions

closed (5 June 2024)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8



mdpi.com/si/165572

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

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





Agriculture

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8



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



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental
Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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), GEOBASE, PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)