

Special Issue

Abiotic Stress Responses in Horticultural Crops

Message from the Guest Editors

Agricultural sustainability is threatened by abiotic stress, contributing to crop failure worldwide and reduced crop productivity. Major abiotic stresses include extreme temperature, drought, salinity, and heavy metal contamination. To overcome abiotic stresses, plants have developed a repertoire of mechanisms to counteract these stresses. Therefore, more research is needed to explore the different mechanisms plant species exploit in response to abiotic stresses on the cellular, morphological, physiological, and molecular levels. The Topic Editors encourage you to contribute to this Special Topic with research articles or reviews deciphering the physiological, biochemical, cellular, or molecular mechanisms underlying abiotic stresses in horticultural crops. This Special Issue will cover, but is not be limited to, the following topics:

- Providing fundamental insights into the response of horticultural crops to abiotic stress;
- Elucidating the underlying mechanisms of resistance/tolerance of horticultural crops to abiotic stresses;
- Using biotechnological and other strategies to improve the resistance/tolerance of horticultural crops to abiotic stresses.

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Deadline for manuscript submissions

closed (20 September 2025)



Agriculture

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Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/200097

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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.

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