

## Special Issue

# Advances in Plant Stress Tolerance and Response

### Message from the Guest Editors

In the face of escalating climate change and the urgent need to sustain agricultural productivity, understanding how plants cope with environmental stress has become a critical area of research. This Special Issue aims to highlight recent advances in deciphering the molecular, physiological, and genetic mechanisms that underlie stress tolerance in crops. We welcome contributions that explore how certain plant species or genotypes withstand abiotic and biotic stresses, including drought, salinity, extreme temperatures, and pathogen attack. Equally important is the investigation of stress perception and signaling pathways—the early responses that enable plants to detect adverse conditions and trigger adaptive mechanisms. By integrating knowledge of both tolerance traits and response dynamics, we move closer to identifying the key factors that confer resilience in crops. This collection of studies will provide valuable insights into how we can develop stress-resilient cultivars, ensuring food security in a changing world.

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### Guest Editors

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### Deadline for manuscript submissions

20 November 2026



## Applied Sciences

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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