Special Issue

Biodiversity and Genetic Control of Tolerance to Abiotic and Biotic Stresses in Plants

Message from the Guest Editors

Despite tremendous progress in plant science towards improving plant performance to attain high yields, the occurrence of abiotic and biotic stresses remains the major limitation to yield in plants. These stresses can reduce plant crop yield to a level that threatens food security. This necessitates the understanding of the mechanisms that regulate plant responses to abiotic and biotic stresses and exploring holistic plant–environment interactions in order to develop strategies for improving plant tolerance to abiotic and biotic stresses. Parts of such strategies should take advantage of the contribution of biodiversity as a source of genetic resources that can be harnessed to attain the goal of improving plant tolerance to these stresses and ultimately contribute to stress resilience in the food production system. This Special Issue will focus on how biodiversity as a broader concept, and the interaction of plants with their environment at the genetic, physiological and ecological levels, and contributes to plant tolerance to abiotic and biotic stress tolerance.

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Deadline for manuscript submissions

closed (30 April 2024)

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/158769

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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