

Special Issue

Dissecting Plant-Environment Interactions with Modern Tools and Techniques: In the Climate Change Era

Message from the Guest Editors

Understanding the molecular aspects of plant-environment interactions such as plant-plant, plant-biotic, and plant-abiotic factors is crucial to design climate-smart crops for the future. Gaining molecular insights into plant interactions and their exploitation for agricultural purposes would be beneficial to achieving the "zero hunger" goal set by the United Nations in 2015 during this climate-change era. We welcome the articles or reviews related to plant-environment interactions and applications of different tools, including genome editing, pyrosequencing, and next-generation sequencing, which add to our understanding of plant interactions with any of the biotic or abiotic factors. In addition, modern tools such as CRISPR/Cas9, base editing, and prime editing for plant biology that may help to explore the molecular aspects in plant interactions for basic and applied research will be considered. Papers describing the basics and applications for crop improvement related to the above-mentioned topics, including the isolation and identification of plant-beneficial microbes, plant-pathogenic interactions, climate-smart crops, and designer crops, will also be considered.

Guest Editors

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About the Journal

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, and 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.

Editor-in-Chief

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