

Special Issue

Drought Responses and Adaptation Mechanisms in Plants

Message from the Guest Editors

Drought is a significant environmental stressor that affects plant growth and crop productivity, posing significant challenges to global agriculture, impacting crop yield and food security. Therefore, understanding plant responses to drought and identifying adaptive strategies is crucial. This Special Issue focuses on papers discussing plant responses to drought stress at different levels, including physiological, biochemical and molecular levels, as well as their molecular mechanisms. We encourage researchers to submit their latest findings on identifying drought-resistant traits, such as root architecture, stomatal regulation and water uptake mechanisms, and the genetic background of these traits. We welcome review and research articles that provide insights into new discoveries, theories and experimental results that contribute to a better understanding of drought responses and adaptation mechanisms in plants. Join us in this important discussion on the future of plant ecology and agriculture. We look forward to receiving your valuable contributions and working together to address the pressing challenges of drought resilience in plants.

Guest Editors

Prof. Dr. Tim Setter

Dr. Florence Volaire

Prof. Dr. William Bauerle

Deadline for manuscript submissions

closed (31 January 2025)



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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, 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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