Special Issue

Trait–Environment Relationships in Plants: Acclimation and Adaptation

Message from the Guest Editor

The establishment and persistence of a plant species depends on an individual's capacity to capture resources from the environment and to use resources effectively towards growth, survival, or reproduction. By examining environmentally driven patterns of variation in plant morphological, physiological, or chemical traits, as well as life history traits, we can better understand and characterize plant ecological strategies. Patterns of trait variation can result from acclimation, which occurs on relatively short timescales, or adaptation, which occurs on much longer, evolutionary timescales. This Special Issue will present recent studies that investigate how traits, particularly those that reflect resource capture and usage, vary in response to environmental cues via acclimation and adaptation responses. Variation both across and within species is informative for understanding the mechanisms by which plant species respond to the environment. Investigating the mechanisms by which, and consequences of, environmentally driven trait variation is important for more accurate predictions of future responses to environmental change.

Guest Editor

Dr. Andrea C. Westerband
Department of Biology, Billeaud Hall, University of Louisiana at Lafayette, Lafayette, LA 70503, USA

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Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

mdpi.com/journal/plants

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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.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

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