Special Issue

Photosynthetic Metabolism under Stressful Growth Conditions

Message from the Guest Editors

Increased periods of water shortage and higher temperatures, together with a reduction in nutrient availability, have been proposed as major factors that negatively impact plant development. Indeed, photosynthesis has been selected as a target for crop phenotyping/breeding studies. Photosynthetic CO2 assimilation is the basis of crop production for animal and human food. Within this context, the knowledge of the mechanisms involved in the response and acclimation of photosynthetic CO2 assimilation to multiple changing environmental conditions (including nutrients, water availability, and rising temperature) is a matter of great concern for the understanding of plant behavior under stress conditions, and for the development of new strategies and tools for enhancing plant growth in the future. The current Special Issue of *Plants* aims to analyze, from a multi-perspective approach (ranging from gas exchange, metabolomics, proteomics, genomics, etc.), the performance of photosynthetic apparatus (and consequently plant growth) within stressful growth conditions.

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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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