

Special Issue

Food Security: Successes and Struggles of Impact-Focused Crop Improvement Projects

Message from the Guest Editors

There are large global imbalances in productivity. In addition to local climatic and soil conditions, this is at least partly due to lack of access and/or rate of application of fertilizer nutrients and agrochemicals for crop protection. Additional challenges now arise from climate change, which increases the severity and frequency of extreme weather events, such as heat, drought and floods. Stress resilient crops are thus urgently needed, especially since we will not be able to hold global warming below the critical 1.5°C (IPPC). This means that life on earth will become more challenging for all of us and crop failure and yield losses will become more frequent and severe. Therefore, plant science and breeding have a tremendously important role to play in developing crops that are better adapted to climate extremes, more resistant to pests and diseases, and that make better use of nutrients.

This special Plants issue is inviting articles highlighting small and big successes made towards food security and translation of science into the fields, as well as critical opinion papers and reviews on how we can do better.

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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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