

Special Issue

Breeding for Stability of Crop Yield and Related Traits under Combined Environmental Constraints

Message from the Guest Editor

Breeding for stability of crop yield and related traits under combined environmental constraints. Climate changes models predict an increased likelihood of high temperatures and altered precipitation patterns. In consequence, a combination of abiotic stressors like heat, drought and soil salinity reduces crop yields. Stress escape strategies by earlier sowing or the use of early maturing varieties confront the crop with altered day length and light quality and an increased risk of low temperatures during critical growth periods. Similar challenges arise when crop production moves to higher latitudes or altitudes. Quantifying the interaction between crop genotypes and combined effects of different environmental stressors is challenging. However, these insights allow defining the targets for the breeding of crops with high yield stability in a changing environment. To that end, the special issue will focus the effect of combined abiotic stresses on different genotypes and the interaction of single abiotic stressors and altitude/latitude dependent effectors like day length and light quality.

Guest Editor

Dr. Karin Koehl
Max Planck Inst Mol Plant Physiol, D-14476 Potsdam, Germany

Deadline for manuscript submissions

closed (31 May 2020)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



mdpi.com/si/27294

Agronomy
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)