



From Allelic Diversity to $G \times E \times M$ Breeding Synergies in Cereals

Guest Editors:

Dr. Roi Ben-David

Department of Vegetables and Field Crops, Institute of Plant Sciences, Agricultural Research Organization (ARO)—The Volcani Center, Rishon LeZion 7505101, Israel

Dr. Kevin Pixley

Genetic Resources Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco 56237, Mexico

Deadline for manuscript submissions:

closed (31 December 2020)

Message from the Guest Editors

Dear colleagues,

Agriculture faces daunting challenges in coming decades: growing population, loss of lands, diminishing resource availability, and climate change. Concurrently, there is growing recognition of the urgency to modify or adapt current cropping systems to ensure long-term sustainability. Cereal breeders thus face the complex challenge of increasing productivity, while reducing the environmental footprint of production.

Relatively few studies in cereals investigate the impact of crop management (M), including agronomy and cropping systems, on environment interactions ($G \times E$). We argue that largely unexplored breeding opportunities to influence $G \times E \times M$ lay ahead, complementing the current core-set of breeding targets in cereals.

We are looking for innovative research studies in major crops that explore $G \times E \times M$ synergies. Relevant studies will integrate both breeding and management components and might describe novel features of varieties for sustainable cropping systems of the future.

Dr. Roi Ben-David

Dr. Kevin Pixley

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

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

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.

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), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi