

Special Issue

Beyond Survival: Engineering Crops for Extreme Climate Adaptation

Message from the Guest Editors

We are witnessing the impact of climate change. Most affected is biodiversity, and the trend of species decline to extinction is higher than ever. Under extreme climate change effects and outbreaks of pests and diseases, the adaptation of all plant genetic resources for food and agriculture (PGRFA) to climate change seems to be of utmost importance today. Adapting agricultural technologies will also be of utmost importance in the coming years in our effort to ensure food security at the global level. It will be important to develop new strategies for PGRFA conservation, and new incentive measures should also be put in place to ensure their conservation on farms as well as their continuing cultivation, including currently neglected and underutilized species. This Special Issue aims to highlight impactful research on crop adaptation to extreme climate challenges. Topics will encompass genetic adaptations, the enhancement and preservation of genetic diversity, equitable access to these resources through the Multilateral System, climate-smart farming practices, and the vital role of farmers and households in ensuring the long-term use and conservation of PGRFA.

Guest Editors

Dr. Rodica Catana

Institute of Biology Bucharest of Romanian Academy, 296 Splaiul
Independentei, 060031 Bucharest, Romania

Dr. Anush Kosakyan

Department of Life Sciences, University of Modena & Reggio Emilia, Via
Campi 213/d, I-41125 Modena, Italy

Deadline for manuscript submissions

1 May 2026



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/239617

Agronomy
Editorial Office
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 3.4
CiteScore 6.7



[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 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)