



## Germplasm Evaluation and Breeding of Cereals under a Changing Environment

Guest Editors:

**Prof. Dr. Hrvoje Šarčević**

1. Department of Plant Breeding,  
Genetics and Biometrics,  
University of Zagreb Faculty of  
Agriculture, Zagreb, Croatia  
2. Center of Excellence for  
Biodiversity and Molecular Plant  
Breeding, Zagreb, Croatia

**Dr. Miroslav Bukan**

Department of Plant Breeding,  
Genetics and Biometrics,  
University of Zagreb Faculty of  
Agriculture, Zagreb, Croatia

Deadline for manuscript  
submissions:

**31 December 2024**

### Message from the Guest Editors

Cereals are the most important source of energy for feeding humans and livestock worldwide. With climate change leading to an increased incidence of biotic and abiotic stresses, which affects both yield and quality, breeding new cultivars with improved traits that are stable across a range of environments is a challenge. An important goal in the development of new cereal cultivars is therefore to increase their resistance to biotic stresses caused by various diseases and pests, as well as to abiotic stresses such as drought, extreme temperatures, salinity, soil nutrient deficiencies, etc.

The implementation of new methods of high-throughput phenotyping and molecular marker technology into existing cereal breeding programs can accelerate the breeding process and increase the response to selection.

This Special Issue of the journal *Agronomy* will focus on all aspects of cereal breeding for improved grain yield and quality. Welcome topics include, but are not limited to, the evaluation of germplasm for yield and quality traits under stress and non-stress conditions in the field and in the laboratory, QTL mapping, GWAS and molecular breeding.





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), PubAg, AGRIS, and other databases.

**Journal Rank:** JCR - Q1 (Plant Sciences) / 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