

Special Issue

Germplasm Evaluation and Breeding of Cereals under a Changing Environment

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.

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

Faculty of Agriculture, University of Zagreb, Svetošimunska Cesta 25, 10000 Zagreb, Croatia

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

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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

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