

Special Issue

Genetic, Phenomic and Physiological Response and Resistance in Plants against Abiotic Stresses

Message from the Guest Editor

Abiotic stresses are among the most challenging threats facing agricultural systems. The increase in temperatures, the decrease in water availability, soil and water salinity, the toxicity of heavy metals, and the need for more sustainable low-input farming systems are examples of these new rules in agriculture. In this regard, the agri-food sector is facing such issues stemming from a range of strategies and disciplines, in particular plant breeding. Thus, works on the adaptation of crops to these stresses, the search for new sources of variation, genetics, inheritance, water and nutrient use efficiency, resilience against temperatures, salinity or toxic ions, the exploitation of genotype-by-environment interaction, etc., are of paramount importance for ensuring food security. This Special Issue invites authors to submit various papers aimed at the characterization, multi-actor evaluation, genetics, breeding, tools, and screening and selection of crop species and wild species in response to any kind of abiotic stress that affects growth, yield, quality, and root–soil interaction to allow more resilient and sustainable agriculture.

Guest Editor

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Deadline for manuscript submissions

closed (15 July 2024)



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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

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