

Special Issue

Plant Breeding Strategies: Employment of Plant Adaptation Mechanisms to Biotic and Abiotic Stresses

Message from the Guest Editor

Recently, various requirements for novel plant breeding methods have emerged. Plant response-based strategies for cultural plant breeding involve the use of genetic resources based on their responses to various environmental and biotic factors at the molecular level. This approach aims to enhance crop yield, resilience, and sustainability by leveraging plants' natural adaptive mechanisms for stress tolerance and yield performance. The purpose of this Special Issue is to deepen our knowledge and collate manuscripts focused on key strategies in the phenotypic and genotypic breeding of cultural plants and establish a correlation on a molecular level. Marker-assisted selection (MAS), transcriptome or proteome analysis, transgenic approaches, and plant microbiome are possible tools used to create resilient agricultural systems capable of sustaining productivity and adapting to changing environmental conditions. To ensure the diversity of approaches and viewpoints of the authors, we aim to collate different types of articles, such as original articles, systematic reviews, and communications.

Guest Editor

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Deadline for manuscript submissions

30 September 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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