

Special Issue

Genetic and Biochemical Enhancement of Nutritional and Stress-Responsive Traits in Plants

Message from the Guest Editors

As agriculture faces climate change and food insecurity, there is an urgent need to develop crops with improved nutrition and stress tolerance. Achieving this requires integrated advances in genetics, biochemistry, and agronomy. Breakthroughs in genomics, metabolomics, and molecular biology are revealing key genes and pathways in nutrient biosynthesis and abiotic stress responses. When aligned with agronomic validation, these insights can transform crop development. This Special Issue invites original research, reviews, and case studies on:

- Genes linked to nutrition and stress tolerance;
- Genetic and biochemical improvement strategies;
- Metabolic regulation under stress;
- Translational research and field validation;
- Case studies from real-world systems.

We aim to showcase integrative approaches that enhance crop resilience, productivity, and nutritional value. Please confirm your interest and propose a tentative title.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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