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Physiological and Molecular Responses of Crops in Abiotic Stress Tolerance

Guest Editors:

Prof. Dr. Peng Chen

Dr. Muzammal Rehman

Dr. Samavia Mubeen

Deadline for manuscript
submissions:

closed (25 March 2024)

Message from the Guest Editors

This Special Issue aims to highlight the advanced breakthroughs in crop responses to abiotic stresses and tolerance mechanisms/strategies. Scientists and academics from all over the world are welcome to share original research, review articles, and short communications in the field of crop stress physiology, biochemistry and molecular biology, with particular emphasis on the physiological and molecular approaches or strategies for stress tolerance. Suggested topics include, but are not limited to:

- Physiological and biochemical responses of crops to environmental stresses;
- Molecular mechanisms of crop stress tolerance;
- Genome-wide transcriptome and proteome analysis of crops under stress;
- Metabolomics and metabolite profiling of crops under stress;
- Metabolic engineering and synthetic biology of crop stress tolerance;
- Strategies for improving crop stress tolerance;
- Integration of modern biotechnology and traditional breeding for crop stress tolerance;
- Omics-based approaches for improving crop stress tolerance.



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Special Issue



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Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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