Special Issue

Applications of Proteomics in Plant Development and Resistance to Biotic and Abiotic Stresses

Message from the Guest Editor

In recent years, proteomics have emerged as a powerful tool for exploring the complex molecular networks that govern plant biology. By enabling large-scale analysis of protein expressions, modifications, and interactions, proteomics provide key insights into the dynamics of plants' development and their responses to the environment. This approach has proven particularly valuable in identifying stress-responsive proteins, signaling pathways, and regulatory mechanisms involved in plant defence against pathogens (biotic stresses) as well as environmental challenges such as drought, salinity, and temperature extremes (abiotic stresses). We invite researchers to contribute original research articles, reviews, and short communications that showcase innovative proteomic studies in model plants, crops, or non-model species. Topics of interest include, but are not limited to, the following:

- Proteomic profiling of stress responses;
- Protein interaction networks in plant defence;
- Role of post-translational modifications in signaling;
- Comparative proteomics in developmental stages.

Guest Editor

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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.

Editor-in-Chief

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