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## Plant Protein Biochemistry and Biomolecular Interactions

Guest Editors:

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**Prof. Dr. Fuyuan Zhu**

Deadline for manuscript  
submissions:

**closed (31 December 2024)**

### Message from the Guest Editors

Proteins carry out a wide variety of functions in plant growth and development as well as the stress response. Structural approaches with X-ray crystallography have contributed mostly to our knowledge of protein function–structure associations; cryo-electron microscopy has revealed the molecular basis of protein complexes that comprise multiple components; and NMR has been used to probe interactions and conformational dynamics of proteins in solution. Intrinsically disordered proteins (IDPs) challenge the classical structure–function paradigm with their disorder-to-order transition adopting various conformations via interacting with partners. Biomolecular condensates formed by liquid–liquid phase separation of IDPs serve as regulatory hubs to switch signaling and programming in cells. Thus, plant protein biochemistry must be revisited to understand the molecular mechanisms of how plant proteins are involved in various biological processes. This Special Issue will cover a wide variety of plant protein biochemistry areas to contribute to the overall knowledge of biomolecular interactions in plants and to call for novel tools and methods of protein biochemistry.



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## Editor-in-Chief

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## 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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