



Special Issue Reprint

**Plant Protein and Proteome Atlas--Integrated Omics
Analyses of Plants under Abiotic Stresses**

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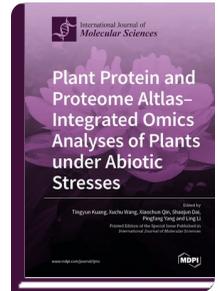
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mdpi.com/books/pdfview/book/2298



ISBN 978-3-03921-960-5 (Pbk)

ISBN 978-3-03921-961-2 (PDF)

Integrative omics of plants in response to stress conditions play more crucial roles in the post-genomic era. High-quality genomic data provide more deeper understanding of how plants to survive under environmental stresses. This book is focused on concluding the recent progress in the Protein and Proteome Atlas in plants under different stresses. It covers various aspects of plant protein ranging from agricultural proteomics, structure and function of proteins, and approaches for protein identification and quantification. A total of 27 papers including two timely reviews have contributed to this Special Issue. In the first part with the topic of “Comparative Proteomics of Different Plants”, six papers were included to describe the phenotypic changes and proteomic analyses of different plants under different conditions. Then, another six papers with the topic of “Proteomics of Plants under Osmotic Stress” were included to describe the recent comparative proteomics analyses of plants under osmotic stress, particularly the drought and salinity stresses in leaves of certain plant species. The other proteomics studies on several energy plants and economic crops were reported to demonstrate the recent omics studies on different plants during their development processes. More stress responsive genes and proteins in these plants were identified. These target genes and proteins are important candidates for further functional validation in economic plants and crops.



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