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Dr. Hiroshi Ezura is a leading scientist in the field of physiology, genomics, genetics, breeding and biotechnology of Solanaceae and Cucurbitaceae plants. He received his B.S. and M.S. degrees from University of Tsukuba in Japan, and Ph.D. from Hokkaido University in Japan. Dr.

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Profile. 2018 - present: Reader in Biochemistry, Dept. of Molecular Biology and Biotechnology, The University of Sheffield; ... Plant Physiology, 149(2), ...

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The conception of Volume 17 of the International Treatise Series on Advances in Plant Physiology has been made possible entirely due to worthy contributions from World Scientists, teachers and researchers of eminence in unequivocal fields. Scientists are well in search of specific and complete literature pertaining to meaningful research for the holistic development of agriculture. The undertaking of this Treatise Series on Plant Physiology is to genuinely categorize the insufficiencies in view of mounting consequential researches for increasing productivity, prosperity and sustainability of agriculture through influential and developing technologies for restructuring metabolic limitations most responsive to abiotic stress factors. Certainly, our idea is to recognize innovative science of value across the broad disciplinary range of the treatise. The aim is to make stronger the distinctive outcome of conscientious research in some of the very sensitive areas of Plant Physiology-Plant Molecular Physiology/ Molecular Biology that broadly highlights the recent developments and mechanisms



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underlying plant resilience to changing environments. This volume brings collectively much needed twenty-one review articles by fifty-one dedicated contributors for this volume assorted into five relevant sections, viz., Section I: Abiotic Stresses & Plant Productivity: Physiological & Molecular Perspectives; Section II: Plant Trace Elements in Plant Physiology; Section III: Plant Functions Research in Agricultural Progression; Section IV: Physiological Basis of Yield; Section V: Nutraceuticals, Medicinal & Aromatic Plant Wealth. This is commendable that the Volume 17 deals with challenges of ongoing international concern over the abiotic stresses under changing climate besides vital aspects related to image-based plant phenotyping; phenomics and its application in physiological breeding; trace elements; plant functions; physiological basis of yield variation; medicinal and aromatic plants and so on. Apart from fulfilling the acute need of this kind of select edition in different volumes for research teams and scientists engaged in various facets of plant sciences research in traditional and agricultural universities, institutes and research laboratories throughout the world, it would be extremely a constructive book and a voluminous reference material for acquiring advanced knowledge by post-graduate and Ph.D. scholars in response to the innovative courses in Plant Physiology, Plant Biochemistry, Plant Molecular Biology, Plant Biotechnology, Environmental Sciences, Plant Pathology, Microbiology, Soil Science & Agricultural Chemistry, Agronomy, Horticulture, and Botany.

The plant cell wall plays a vital role in almost every aspect of plant physiology. New techniques in spectroscopy, biophysics and molecular biology have revealed the extraordinary complexity of its molecular architecture and just how important this structure is in the control of plant growth and development. The Second Edition of this accessible and integrated textbook has been revised and updated throughout. As well as focusing on the structure and function of plant cell walls the book also looks at the applications of

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this research. It discusses how plant cell walls can be exploited by the biotechnology industry and some of the main challenges for future research. Key topics include: architecture and skeletal functions of the wall; cell-wall formation; control of cell growth; role in intracellular transport; interactions with other organisms; cell-wall degradation; biotechnological applications of cell-walls; role in diet and health. This textbook provides a clear, well illustrated introduction to the physiology and biochemistry of plant cell walls which will be invaluable to upper level undergraduate and post graduate students of plant physiology, plant pathology, plant biotechnology and biochemistry.

Covers the basic knowledge of the regulation of biosynthesis of various amino acids in plants and the application of this knowledge to the discovery of novel inhibitors of amino acid biosynthesis and for enhancing the nutritional value of plant products. Provides an exhaustive list of pathway inhibitors.

This book provides a comprehensive review of the unicellular green alga *Dunaliella*, emphasizing the basic biological approach and examining a number of significant topics from which the most intensive *Dunaliella* research areas have been developed over the last 25 years. These topics include the mechanism of osmoregulation in *Dunaliella*, ion transport,  $\beta$ -carotene production, acidophilism in *Dunaliella*, and biotechnology of *Dunaliella*. *Dunaliella*: Physiology, Biochemistry, and Biotechnology will interest plant physiologists, phycologists, physiologists, and biotechnologists.

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