



## Plant Biochemistry

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Plant Biochemistry, Third Edition examines the fundamental aspects of plant biochemistry and biology, including taxonomy, morphology, ecology, horticulture, agronomy, and phytopathology. It discusses the substructures and subfunctions of plant cells, the basic metabolism of plants, and the mechanism and regulation as well as physiological significance of various pathways of photosynthetic carbon dioxide assimilation.

Comprised of 26 chapters, this edition begins with an overview of the subcellular components of the plant cell, the overall logic or strategy that the cell uses, and the operation of individual subcellular systems. It discusses the plant ribosomes and nuclei, biosynthesis and assembly of cell membranes in plants, distribution and functional roles of microbodies in plants, photosynthesis and the general biology of chloroplasts, and plant microtubules. The remaining chapters focus on the biochemistry and functions of vacuoles, the primary cell wall and its biogenesis, the regulation of enzyme activity in metabolic pathways, the monosaccharides and oligosaccharides, and the lipid metabolism. The book concludes with a chapter on biological nitrogen fixation and its practical applications in agriculture.

This book is a valuable resource for biochemists and plant biologists as well as advanced students or professional workers in plant sciences.

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