

conn and stumpf biochemistry

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Outlines of Biochemistry

A concise yet broadly based text geared for students with varying degrees of knowledge of the subject. Introducing biochemistry using the theme of intermediary metabolism, the text is divided into three sections: Biological Compounds, such as proteins, nucleic acids, carbohydrates, lipids, and amino acids; Metabolism of Energy-Yielding Compounds, including comprehensive chapters on photosynthesis, the nitrogen and sulfur cycles, ammonia assimilation, and sulfate assimilation; and Metabolism of Informational Molecules, with chapters on molecular biology and biotechnology. This edition features more information on plant biochemistry, a new chapter on genetic engineering, gene manipulation, and viruses and gene rearrangements. Extensive updating and revision throughout.

OUTLINES OF BIO CHEMISTRY

V. 1 The plant cell. v. 2. Metabolism and respiration. v. 3. Carbohydrates. v. 4. Lipids. v. 5. Amino acids and derivatives. v. 6. Proteins and nucleic acids. v. 7. Secondary plant products. v. 8. Photosynthesis. v. 9. Lipids: structure and function. v. 10. Photosynthesis. v. 11. Biochemistry of metabolism. v. 12. Physiology of metabolism. v. 13. Methodology. v. 14. Carbohydrates. v. 15. Molecular biology. v.16. Intermediary nitrogen metabolism.

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The Biochemistry of Plants. A Comprehensive Treatise, Edited by P.K. Stumpf and E.E. Conn. Vol. 1. The Plant Cell

The Biochemistry of Plants: A Comprehensive Treatise, Volume 7: Secondary Plant Products focuses on the biochemistry of secondary compounds, including tissue culture and differentiation, complexes, and plant systematics. The selection first elaborates on the physiological roles of secondary natural products, tissue culture and the study of secondary natural products, and turnover and degradation of secondary natural products. Discussions focus on degradative reactions of nitrogenous and phenolic compounds, concept of turnover of secondary products, and plant-vertebrate interactions. The text then elaborates on secondary plant products and cell and tissue differentiation; compartmentation in natural product biosynthesis by multienzyme complexes; and secondary metabolites and plant systematics. The manuscript examines the stereochemical aspects of natural products biosynthesis, nonprotein amino acids, and amines. Topics include tryptamines, phenethylamines, and histamine, nonprotein amino acids as analogues and antimetabolites, chemistry and biogenesis, and nonprotein amino acids as indexes for chemotaxonomy. The book also tackles glycosylation and glycosidases; transmethylation and demethylation reactions in the metabolism of secondary plant products; and oxygenases and the metabolism of plant products. The selection is a vital reference for researchers interested in the biochemistry of secondary compounds.

The Biochemistry of Plants: Conn, E.E. Secondary plant products

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The Biochemistry of Plants: Stumpf, P.K., Lipids: structure and function

The Biochemistry of Plants, Volume 14: Carbohydrates provides information pertinent to the fundamental aspects of plant biochemistry. This book deals with the function and structure of the plant cell wall by describing the physical and chemical properties of cell wall components. Organized into 11 chapters, this volume begins with an overview of hexose phosphate metabolism in nonphotosynthetic tissues. This text then examines the findings in fructan structures, conformations, and linkages, the enzymes involved in fructan synthesis and degradation, and their cellular regulation, location, and metabolic role

in plants. Other chapters consider the methods employing enzymes to determine starch structure. This book discusses as well the different biosynthetic modes of plant cell walls. The final chapter deals with the various environmental factors that influence expression of the α -amylase gene, suggesting how molecular biology may help in understanding carbohydrate biochemistry and the enzymes involved in carbohydrate synthesis and metabolism. This book is a valuable resource for plant biochemists.

The Biochemistry of Plants: Molecular biology

Approx.504 pages Approx.504 pages

The Biochemistry of Plants: Molecular biology

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Intermediary Nitrogen Metabolism

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The Biochemistry of Plants

A great deal of research has been carried out on this important class of compounds in the last ten years. To ensure that scientists are kept up to date, the editors of the First Edition of The Lipid Handbook have completely reviewed and extensively revised their highly successful original work. The Lipid Handbook: Second Edition is an indispensable resource for anyone working with oils, fats, and related substances.

The Biochemistry of Plants: Biochemistry of metabolism

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The Biochemistry of Plants: Marcus, Abraham. Molecular biology

This volume covers the most significant advances of the last ten years in understanding intermediary nitrogen metabolism in plants. The eight chapters comprise aspects of nitrate and nitrogen assimilation, symbiotic nitrogen fixation, glutamine and glutamate enzymology, amino acid biosynthesis, ureides, and polyamine and sulfur metabolism. The volume emphasizes molecular and genetic advances as well as biochemistry and physiology. Intermediary Nitrogen Metabolism will be of interest to all plant biochemists and molecular geneticists who study nitrogen metabolism, enzymology, and amino acids.

The Biochemistry of Plants

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The Biochemistry of Plants: The plant cell

The Biochemistry of Plants: Methodology