Plant Biochemistry. Edition No. 4

Description: The fully revised and expanded fourth edition of Plant Biochemistry presents the latest science on the molecular mechanisms of plant life. The book not only covers the basic principles of plant biology, such as photosynthesis, primary and secondary metabolism, the function of phytohormones, plant genetics, and plant biotechnology, but it also addresses the various commercial applications of plant biochemistry. Plant biochemistry is not only an important field of basic science explaining the molecular function of a plant, but is also an applied science that is in the position to contribute to the solution of agricultural and pharmaceutical problems.

Plants are the source of important industrial raw material such as fat and starch but they are also the basis for the production of pharmaceutics. It is expected that in the future, gene technology will lead to the extensive use of plants as a means of producing sustainable raw material for industrial purposes. As such, the techniques and use of genetic engineering to improve crop plants and to provide sustainable raw materials for the chemical and pharmaceutical industries are described in this edition. The latest research findings have been included, and areas of future research are identified.

- Offers the latest research findings in a concise and understandable manner.
- Presents plant metabolism in the context of the structure and the function of plants.
- Includes more than 300 two-color diagrams and metabolic schemes.
- Covers the various commercial applications of plant biochemistry.
- Provides extensive references to the recent scientific literature.

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2 The Use of Energy from Sunlight by Photosynthesis is the Basis of Life on Earth
3 Photosynthesis is an Electron Transport Process
4 ATP is Generated by Photosynthesis
5 Mitochondria are the Power Station of the Cell
6 The Calvin Cycle Catalyzes Photosynthetic CO2 Assimilation
7 In the Photorespiratory Pathway Phosphoglycolate Formed by the Oxygenase Activity of RubisCo is Recycled
8 Photosynthesis Implies the Consumption of Water
9 Polysaccharides are Storage and Transport Forms of Carbohydrates Produced by Photosynthesis
10 Nitrate Assimilation is Essential for the Synthesis of Organic Matter
11 Nitrogen Fixation Enables the Nitrogen in the Air to be Used for Plant Growth
12 Sulfate Assimilation Enables the Synthesis of Sulfur Containing Substances
13 Phloem Transport Distributes Photosynthetic Products to the Various Sites of Consumption and Storage
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17 Large Diversity of Isoprenoids has Multiple Functions in Plant Metabolism
18 Phenylpropanoids Comprise a Multitude of Plant Secondary Metabolites and Cell Wall Components
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20 A Plant Cell has Three Different Genomes
21 Protein Biosynthesis Occurs at Different Sites of a Cell
22 Gene Technology Makes It Possible to Alter Plants to Meet Requirements of Agriculture, Nutrition, and Industry

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