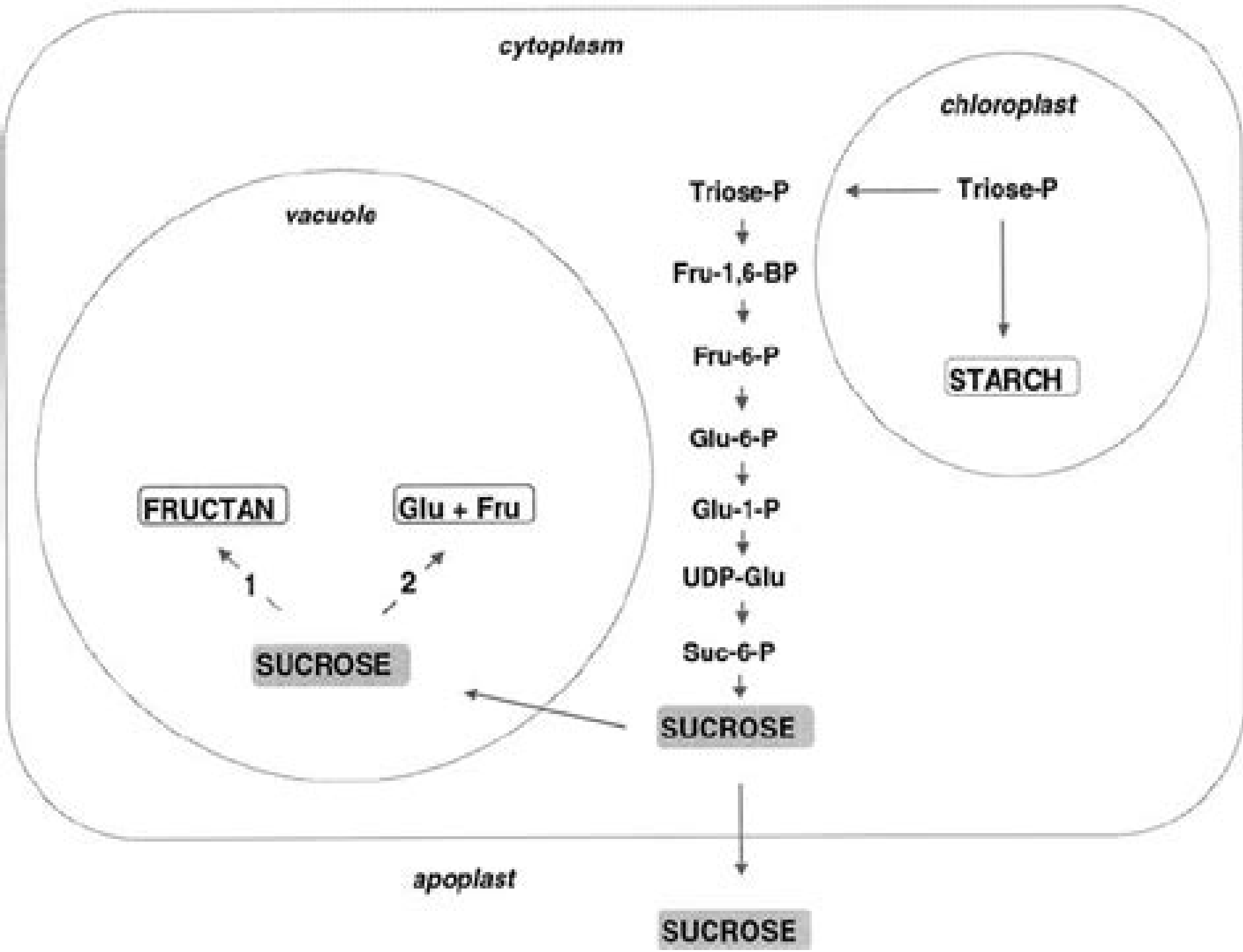




Plant Carbohydrate Biochemistry

Wenbin Ji



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Plant Carbohydrate Biochemistry J. A. Bryant, Michael M. Burrell, Nicholas J. Kruger, 1999 Comprises an integrated series of chapters written by internationally recognized researchers Each chapter of this text reviews the latest developments and provides a collection of assessments of current understanding of the subject *Plant carbohydrate Biochemistry* J. B. Pridham, 1974 The Biochemistry of Plants, 1988-05-28 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 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

Plant Biochemistry Hans-Walter Heldt, Fiona Heldt, 2005 1 A Leaf Cell Consists of Several Metabolic Compartments 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 Photoassimilates to the Various Sites of Consumption and Storage 14 Products of Nitrate Assimilation are Deposited in Plants as Storage Proteins 15 Glycerolipids are Membrane Constituents and Function as Carbon Stores 16 Secondary Metabolites Fulfill Specific Ecological Functions in Plants 17 Large Diversity of Isoprenoids has Multiple Functions in Plant Metabolism 18 Phenylpropanoids Comprise a Multitude of Plant Secondary Metabolites and Cell Wall Components 19 Multiple Signals Regulate the Growth and Development of Plant Organs and Enable Their Adaptation to Environmental Conditions 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

Carbohydrates: Structure and Function Jack Preiss, 2014-05-10 The Biochemistry of Plants A Comprehensive Treatise Volume 3 Carbohydrates Structure and Function is a compilation of contributions dealing with studies in the area of plant

carbohydrates The articles in this volume are grouped into three sections The first section deals with topics concerning the monosaccharides and their derivatives found in plants The integration and control of vital pathways concerned with hexose phosphate metabolism glycolysis gluconeogenesis the metabolism of monosaccharide derivatives and the formation of sugar nucleotides and their various transformations to the many novel sugar derivatives normally found in plant cell walls and complex carbohydrates are discussed in this section The second part deals with the occurrence biosynthesis and transport of disaccharides and oligosaccharides The final section of the volume is concerned with the occurrence structure and biosynthesis of simple and complex polysaccharides and glycoconjugates associated with cell walls and membranes

Biochemists and botanists will find the book a great reference material Plant Cell Biology William V Dashek,2010-03-09 While there are a few plant cell biology books that are currently available these are expensive methods oriented monographs The present volume is a textbook for upper undergraduate and beginning graduate students This textbook stresses concepts and is inquiry oriented To this end there is extensive use of original research literature As we live in an era of literature explosion one must be selective These judgements will naturally vary with each investigator Input was sought from colleagues in deciding the literature to include In addition to provision of select research literature this volume presents citations and summaries of certain laboratory methods In this connection the textbook stresses quantitative data to enhance the student's analytical abilities Thus the volume contains computer spread sheets and references to statistical packages e g Harvard Graphics and Statistica Biochemistry of Storage Carbohydrates in Green Plants P. M. Dey,R. A. Dixon,1985

Plant Carbohydrates I F.A. Loewus,W. Tanner,2012-12-06 The essential features of constitution configuration and conformation in carbohydrate chemistry so well established in the first half of this century had yet to be exploited by those concerned with biochemical and physiological processes in plants when the original Encyclopedia appeared Two outstanding developments discovery of sugar nucleotides and the advent of chromatography brought together the insight and a means of probing complexities inherent in plant carbohydrates These advances combined with a modern knowledge of enzymes and cellular metabolism have provided new horizons of investigation for the student of plant physiology This volume and its companion Vol 13B present a comprehensive assessment of the current viewpoint in plant carbohydrates with emphasis on those aspects which impinge on physiological processes of growth and development To accommodate the extensive amount of information to be presented subject matter has been divided somewhat arbitrarily into intracellular and extracellular carbohydrates with the latter defined as carbohydrates occurring in space outside the plasma membrane plasmalemma This classification is not exclusive rather it is intended to lend a degree of flexibility to the way in which subject matter is arranged between volumes The first section of this volume addresses the occurrence metabolism and function of monomeric and higher saccharides of fungi algae and higher plants Plant Carbohydrate Biochemistry Phytochemical Group,1974

Plant Biochemistry Caroline Bowsher,Alyson Tobin,2021-03-10 Plant Biochemistry focuses on the molecular and cellular

aspects of each major metabolic pathway and sets these within the context of the whole plant Using examples from biomedical environmental industrial and agricultural applications it shows how a fundamental understanding of plant biochemistry can be used to address real world issues It illustrates how plants impact human activity and success in terms of their importance as a food supply and as raw materials for industrial and pharmaceutical products and considers how humans can benefit from exploiting plant biochemical pathways All chapters in this second edition have been substantially revised to incorporate the latest research developments and case studies include updates on progress in developing novel plants and plant products The artwork now in full color superbly illustrates the key concepts and mechanisms presented throughout Key features Presents each topic from the cellular level to the ecological and environmental levels placing it in the context of the whole plant Biochemical pathways are represented as route maps showing how one reaction interacts with another both within and across pathways Includes comprehensive reading lists with descriptive notes to enable students to conduct their own research into topics they wish to explore further The wide ranging approach of this book emphasizes the importance of teaching and learning plant biochemical pathways within the framework of what the pathway does and why it is needed Illustrates the fundamental significance of plants in terms of their importance as a food supply as raw materials and as sources of novel products Plant Biochemistry is invaluable to undergraduate students who wish to gain insight into the relevance of plant metabolism in relation to current research questions and world challenges It should also prove to be a suitable reference text for graduates and researchers who are new to the topic or who wish to broaden their understanding of the range of biochemical pathways in plants

Plant Secondary Metabolism David S. Seigler, 2012-12-06 Life has evolved as a unified system no organism exists similar role also has been suggested for fatty acids from alone but each is in intimate contact with other organisms cyanolipids Nonprotein amino acids cyanogenic glyco and its environment Historically it was easier for workers sides and the non fatty acid portion of cyanolipids also are in various disciplines to delimit artificially their respective incorporated into primary metabolites during germination areas of research rather than attempt to understand the entire Secondary metabolites of these structural types are accumu system of living organisms This was a pragmatic and neces lated in large quantities in the seeds of several plant groups sary way to develop an understanding for the various parts where they probably fulfill an additional function as deter We are now at a point however where we need to investi rents to general predation gate those things common to the parts and specifically those The second type of relationship involves interaction of things that unify the parts The fundamental aspects of many plants with other organisms and with their environment Bio of these interactions are chemical in nature Plants constitute logical interactions must be viewed in the light of evolution an essential part of all life systems phytochemistry provides ary change and the coadaptation or perhaps coevolution of a medium for linking several fields of study

Storage Carbohydrates in Vascular Plants D. H. Lewis, 1984 Occurrence and distribution of storage carbohydrates in vascular plants Sucrose metabolism Pathways and

mechanisms associated with carbohydrate translocation in plants Physiology and metabolism of sucrosyl fructans Biosynthesis of oligosaccharides in vascular plants Physiology and metabolism of cyclitols Physiology and metabolism of alditols Biochemistry and physiology of synthesis of starch in leaves autotrophic and heterotrophic chloroplasts Degradation of starch in chloroplasts a buffer to sucrose metabolism Metabolism of reserve starch Synthesis and degradation of extracellular storage polysaccharides

The Biochemistry of Plants: Carbohydrates, 1980 Plant Carbohydrates II W. Tanner, F.A. Loewus, 2012-12-06 In 1958 a single volume in the original series of this Encyclopedia adequately summarized the state of knowledge about plant carbohydrates Expansion into two volumes in the New Series highlights the explosive increase in information and the heightened interest that attended this class of compounds in the intervening years Even now the search has just begun Much remains to be accomplished e.g. a full description of the plant cell wall in chemical terms Why this growing fascination with plant carbohydrates Clearly much credit goes to those who pioneered the complex chemistry of polyhydroxylated compounds and to those who later sorted out the biochemical features of these molecules But there is a second aspect the role of carbohydrates in such biological functions as host-parasite and pollen-pistil interactions the mating reaction in fungi symbiosis and secretion to name a few Here is ample reason for anyone concerned with the plant sciences to turn aside for a moment and consider how carbohydrates so many years neglected in favor of the study of proteins and nucleic acids contribute to the physiological processes of growth and development in plants Biochemical Basis of Plant Breeding Carlos A. Neyra, 2019-07-17 First published in 1985 This book presents a comprehensive survey of progress and current knowledge of those biochemical processes with greater potential for the development of superior cultivars Photosynthesis photorespiration nitrate assimilation biological nitrogen fixation and starch and protein synthesis

Plant Biochemistry P. M. Dey, J. B. Harborne, 1997-02-03 Plant Biochemistry provides students and researchers in plant sciences with a concise general account of plant biochemistry The edited format allows recognized experts in plant biochemistry to contribute chapters on their special topics Up-to-date surveys are divided into four sections the cell primary metabolism special metabolism and the plant and the environment There is a strong emphasis on plant metabolism as well as enzymological methodological molecular biological functional and regulatory aspects of plant biochemistry Illustrations of metabolic pathways are used extensively and further reading lists are also included The coverage of the subject is divided into four sections The plant cell describing both molecular components and function Primary metabolism including the pathways of carbohydrate lipid nitrogen nucleic acid and protein metabolism as well as gene regulation Special metabolism chapters on phenolics isoprenoids and secondary nitrogen compounds The plant and the environment discussions of pathology ecology and biotechnology at the molecular level *Biochemistry and Molecular Biology of Plants* Bob B. Buchanan, Wilhelm Gruissem, Russell L. Jones, 2015-07-02 Biochemistry and Molecular Biology of Plants 2nd Edition has been hailed as a major contribution to the plant sciences literature and critical acclaim has been matched by global sales success

Maintaining the scope and focus of the first edition the second will provide a major update include much new material and reorganise some chapters to further improve the presentation This book is meticulously organised and richly illustrated having over 1 000 full colour illustrations and 500 photographs It is divided into five parts covering Compartments Cell Reproduction Energy Flow Metabolic and Developmental Integration and Plant Environment and Agriculture Specific changes to this edition include Completely revised with over half of the chapters having a major rewrite Includes two new chapters on signal transduction and responses to pathogens Restructuring of section on cell reproduction for improved presentation Dedicated website to include all illustrative material Biochemistry and Molecular Biology of Plants holds a unique place in the plant sciences literature as it provides the only comprehensive authoritative integrated single volume book in this essential field of study , **Recent Advances in Plant Carbohydrate Biochemistry** Harry Andrews (Professor in biochemistry),2013 **The Biochemistry of Plants** Paul Karl Stumpf, Eric E. Conn, 1980 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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