

# **The Biochemistry of Plants**

**A COMPREHENSIVE TREATISE**

**P. K. Stumpf and E. E. Conn**

**EDITORS-IN-CHIEF**

**Volume 9**

**Lipids:**

**Structure and Function**

**P. K. Stumpf**

**EDITOR**

# Lipids Structure And Function Volume 9 The Biochemistry Of Plants

**Scott C. Dulebohn**



## **Lipids Structure And Function Volume 9 The Biochemistry Of Plants:**

**Lipids: Structure and Function**, 2014-05-19 Lipids Structure and Function The Biochemistry of Plants: Lipids, 1980 *Lipid Metabolism in Plants* Thomas S. Moore, 2018-02-01 This text presents a comprehensive description of the fundamental principles of plant lipid metabolism and then uses this base to examine current research in the field The importance of molecular biology and the incorporation of new analytical methods are discussed and the contributions of current research to agricultural and industrial uses are covered in depth Chapters are illustrated with tables and figures to support key concepts and projections for future research in the field are also explored *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 **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 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 The Biochemistry of Plants: Biochemistry of metabolism Paul Karl Stumpf, Eric E. Conn, 1980 *Plant Lipid Biosynthesis* John L. Harwood, 1998-11-12 A review of the most recent advances in plant lipid biosynthesis particularly relevant to industry

*The Metabolism, Structure, and Function of Plant Lipids* Paul Karl Stumpf, J. Brian Mudd, W. David Nes, 1987-05-31 The Seventh International Symposium on the Structure and Function of Plant Lipids took place at the University of California Davis California July 27th to August 1st 1986 This was the first time the Symposium was held in the United States The list of previous host cities reads Norwich Karlsruhe Goteborg Paris Groningen Neuchatel The addition of Davis to this distinguished list was made by the organizers with the doubts of people who give invitations to parties will anybody come In fact 155 participants registered and there were 21 spouses in attendance The scientific program was composed of nine sessions biochemistry of isoprenoids and sterols function of isoprenoids and sterols structure and function of lipids biosynthesis of complex lipids fatty acid oxygenases and desaturases medium and long chain fatty acids interaction of university government and industrial research algal lipids and genetics and biotechnology In addition to these sessions of plenary lectures there were four poster sessions in which about 140 posters were presented All of this was packed into four days and there was some comment about the scarcity of time to ask questions of the speakers discuss the posters and even to eat lunch The compression of the program was a result of the continued desire of the organizing committees to avoid concurrent sessions The congregation of participants into a single session increases interaction and generates a feeling of unity at these symposia

**Chilling Injury of Horticultural Crops** Chien Yi Wang, 1990-03-20 This book provides readers with a historical background as well as current knowledge and theories on chilling injury This exciting volume covers a broad scope of topics from basic concepts to practical applications This work also brings together discussions on various aspects of chilling injury It gives basic information which describes biochemical changes molecular basis and concepts of chilling injury Additionally it describes the development of chilling injury in crops of tropical subtropical and temperate origin This interesting resource places emphasis on assessment prevention and reduction of chilling injury It also provides an extensive collection of references at the end of each chapter which offers the reader an abundance of resources for further detailed study Researchers and students in plant physiology horticulture and agronomy will find this book most valuable *EJB Reviews* 1991 P. Christen, E. Hofmann, 2013-11-21 In the mid 1980s the European Journal of Biochemistry set out to publish review

articles The enterprise proved successful resulting in high level reviews written by well known scientists appearing in the Journal The reviews represent emerging and rapidly growing fields of research in fundamental as well as applied areas of biochemistry such as medicine biotechnology agriculture and nutrition Novel methodological and technological approaches which stimulate biochemical research are also included The authors of the reviews are explicitly asked to be critical selective evaluative and interdisciplinarily oriented The reviews should encourage young scientists toward independent and creative thinking and inform active investigators about the state of the art in a given field The Biochemistry of Plants:

Carbohydrates ,1980 **The Biochemistry of Plants** Paul Karl Stumpf, Eric E. Conn, 1980 V 1 plant cell v 2 metabolism e respiration v 3 Carbohydrats extructure and function v 4 lipids v 5 aminoacids v 6 proteins v 7 plant products v 8 photosynthesis *The Biochemistry of Plants: Methodology* Paul Karl Stumpf, Eric E. Conn, 1980 **Lipids: Structure and**

**Function** , 1987-09-11 The Biochemistry of Plants A Comprehensive Treatise Volume 9 Lipids Structure and Function focuses on the advancements in the methodologies principles techniques and technologies involved in plant lipid research The selection first elaborates on the analysis and structure determination of acyl lipids oxidative systems for modification of fatty acids and lipases Topics include lipid acyl hydrolases properties of the lipoxygenase reaction metabolism of the hydroperoxide products of lipoxygenase physical and chemical methods of structure determination and chromatographic methods of separation The manuscript then examines the biosynthesis of saturated fatty acids biochemistry of plant acyl carrier proteins and biosynthesis of monoenoic and polyenoic fatty acids Discussions focus on polyunsaturated fatty acid biosynthesis and regulation molecular biology and immunological characterization of acyl carrier proteins The publication ponders on lipids of blue green algae lipid derived defensive polymers and waxes and their role in plant microbe interaction sulfolipids and galactolipid synthesis The selection is a vital source of information for researchers interested in the structure and functions of lipids The Biochemistry of Plants E. E. Conn, P. K. Stumpf, David D. Davies, B. J. Mifflin, Peter J. Lea, N. E.

Tolbert, 1980 The Biochemistry of Plants: Intermediary nitrogen metabolism Paul Karl Stumpf, Eric E. Conn, 1990

Lipids, Membranes and Aspects of Photobiology John L. Harwood, J. R. Bowyer, 1990 This series *Methods in Plant Biochemistry* provides an authoritative reference on current techniques in the various fields of plant biochemical research Under the expert guidance of a guest editor each volume will provide comprehensive practical information on the assay and analytical techniques appropriate for a particular family of plant compounds The emphasis here is on techniques and laboratory procedures No plant biochemical laboratory can afford to be without this comprehensive and up to date reference

**Biochemistry and Cell Biology** , 1990 American Scientist , 1942

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