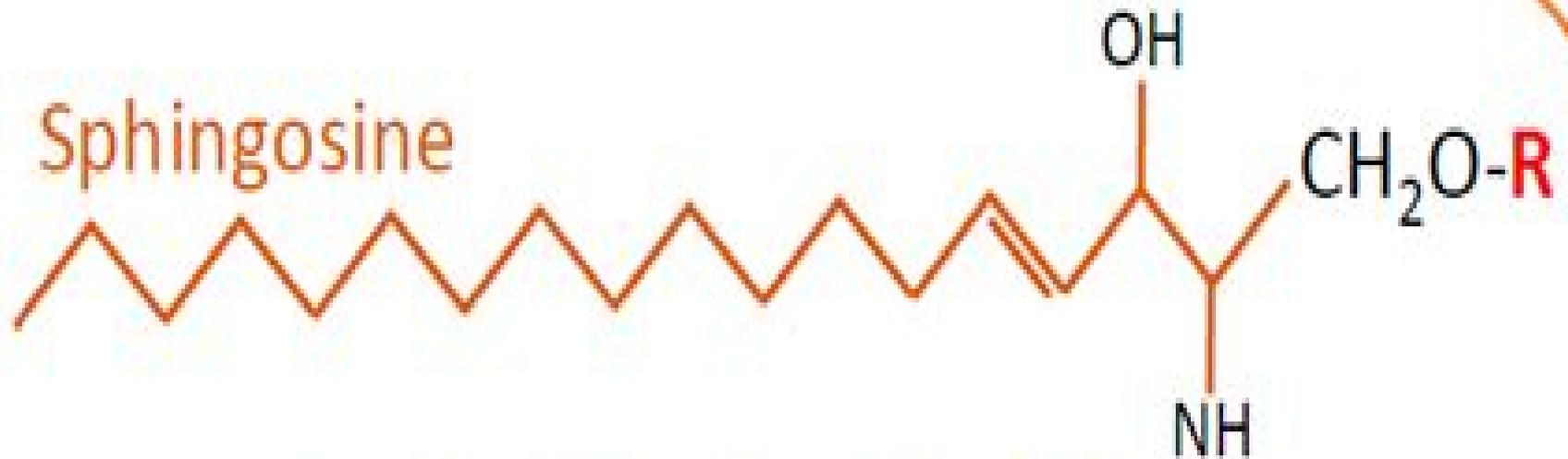


Sphingosine



Fatty acid



**R** can be

H = Ceramides

P = Ceramide-1-phosphate

Phosphocholine = Sphingomyelins

Sugars = Glycosphingolipids

# Sphingolipid Biochemistry

**Dennis E. Vance, J.E. Vance**



## **Sphingolipid Biochemistry:**

*Sphingolipid Biochemistry* Julian N. Kanfer, Sen-itiroh Hakomori, 2012-12-06 *Biochemistry of Lipids, Lipoproteins and Membranes* Dennis E. Vance, J.E. Vance, 2002-12-06 Research on the biochemistry and molecular biology of lipids and lipoproteins has experienced remarkable growth in the last 20 years particularly with the realization that many different classes of lipids play fundamental roles in diseases such as heart disease obesity diabetes cancer and neurodegenerative disorders The 5th edition of this book has been written with two major objectives The first objective is to provide students and teachers with an advanced up to date textbook covering the major areas of current interest in the lipid field The chapters are written for students and researchers familiar with the general concepts of lipid metabolism but who wish to expand their knowledge in this area The second objective is to provide a reference text for scientists who are about to enter the field of lipids lipoproteins and membranes and who wish to learn more about this area of research All of the chapters have been extensively updated since the 4th edition appeared

**Biochemistry of Lipids, Lipoproteins and Membranes** Neale Ridgway, Roger McLeod, 2008-03-14 Research on the biochemistry and molecular biology of lipids and lipoproteins has experienced remarkable growth in the past 20 years particularly with the realization that many different classes of lipids play fundamental roles in diseases such as heart disease obesity diabetes cancer and neurodegenerative disorders The 5th edition of this book has been written with two major objectives The first objective is to provide students and teachers with an advanced up to date textbook covering the major areas of current interest in the lipid field The chapters are written for students and researchers familiar with the general concepts of lipid metabolism but who wish to expand their knowledge in this area The second objective is to provide a text for scientists who are about to enter the field of lipids lipoproteins and membranes and who wish to learn more about this area of research All of the chapters have been extensively updated since the 4th edition appeared in 2002 Represents a bridge between the superficial coverage of the lipid field found in basic biochemistry text books and the highly specialized material contained in scientific review articles and monographs Allows scientists to become familiar with recent developments related to their own research interests and will help clinical researchers and medical students keep abreast of developments in basic science that are important for subsequent clinical advances Serves as a general reference book for scientists studying lipids lipoproteins and membranes and as an advanced and up to date textbook for teachers and students who are familiar with the basic concepts of lipid biochemistry

**Sphingolipids** Angel Catalá, 2015 This book presents an overview of sphingolipids biology synthesis and functions The topics analysed in this book cover a broad spectrum of functions played by sphingolipids including the role of sphingomyelin in the regulation of membrane physical state tricyclic antidepressants as modulators of sphingolipid turnover and cell sensitivity to insulin action sphingolipid diversity biosynthesis and regulation metabolism of glycolipids at the cell's surface modulation and functional implications the specific role of sphingomyelins in cell physiology the role of sphingosine based

lipids using sphingolipidomics sphingolipids and ceramides of aqueous humor and trabecular meshwork the effect of membrane microdomains containing sphingolipids on lipid peroxidation and roles of sphingolipids in skeletal development and homeostasis *Sphingolipid Biology* Y. Hirabayashi, Y. Igarashi, A.H. Jr. Merrill, 2007-12-31 Sphingolipids are fundamental to the structures of cell membranes lipoproteins and the stratum corneum of the skin Many complex sphingolipids as well as simpler sphingoid bases and derivatives are highly bioactive as extra and intracellular regulators of growth differentiation migration survival senescence and numerous cellular responses to stress This book provides many examples of exciting new developments in sphingolipid biology sphingolipidology that are changing our understanding of how multicellular organisms grow develop function age and die Key areas addressed include sphingolipid biosynthesis transport and membrane organization lipid rafts genetic approaches to understanding the roles of membrane sphingolipid biosynthesis sphingolipid metabolism specific G protein coupled receptors GPCRs and signal transduction and sphingolipid associated disease and drug development *Sphingolipids: Basic Science and Drug Development* Erich Gulbins, Irina Petrache, 2013-04-11 Sphingolipids are lipid components of the plasma membrane in eukaryotic cells They have an important function in signaling mechanisms in the cell This book on sphingolipids provides insights into the basics of sphingolipid biology and drug development with a particular emphasis on the sphingolipid derivative ceramide In the first part basic functions of sphingolipids are described as well as the genetics of important enzymes sphingolipid metabolism and synthesis The second part of this first volume focuses on drug development and pharmacology The book is intended for scientists in pharmacology biochemistry and cell biology with a focus on biomedical research as well as for clinicians working in pharmacology oncology cardiology neurology and infectious disease Together with Volume 216 by the same editors the collection represents a unique comprehensive work on sphingolipids providing information on both sphingolipids basic biology including synthesis metabolism and cell biology and their important function in a patho physiological context

**Sphingolipid Metabolism and Cell Signaling** Alfred H. Merrill, Alfred Harrison Merrill, Yusuf A. Hannun, 2000 Sphingolipids are found in all eukaryotic and in some prokaryotic organisms and provide structure for cell membranes lipoproteins and other biological materials as well as participate in the regulation of cell growth differentiation and diverse cell functions including cell cell communication cell substratum interactions and intracellular signal transduction This volume presents methods used in studying enzymes of sphingolipid biosynthesis and turnover including inhibitors of some of these enzymes genetic approaches and organic and enzymatic syntheses of sphingolipids and analogs Its companion Volume 312 will contain information on analyzing sphingolipids sphingolipid transport and trafficking and sphingolipid protein interactions and cellular targets The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of

them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences *Biochemistry of Lipids, Lipoproteins and Membranes* J.E. Vance, Dennis E. Vance, 2002 The first edition of this book was published in 1985 The content of the 4th edition reflects the enormous advances that have occurred since that time in the field of lipid biochemistry This publication is unique in that it represents a bridge between the superficial coverage of the lipid field found in basic biochemistry text books and the highly specialized material contained in scientific review articles and monographs The book is not a collection of exhaustive reviews but a current and readable summary of diverse aspects of lipids It is intended as an advanced and up to date textbook for teachers and students who are familiar with the basic concepts of lipid biochemistry and will also serve as a general reference book for scientists studying lipids lipoproteins and membranes

**Sphingolipid Metabolism and Cell Signaling, Part A**, 1999-11-01 Sphingolipids are found in all eukaryotic and in some prokaryotic organisms and provide structure for cell membranes lipoproteins and other biological materials as well as participate in the regulation of cell growth differentiation and diverse cell functions including cell cell communication cell substratum interactions and intracellular signal transduction This volume presents methods used in studying enzymes of sphingolipid biosynthesis and turnover including inhibitors of some of these enzymes genetic approaches and organic and enzymatic syntheses of sphingolipids and analogs Its companion Volume 312 will contain information on analyzing sphingolipids sphingolipid transport and trafficking and sphingolipid protein interactions and cellular targets The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences

**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

**Sphingolipids as Signaling and Regulatory Molecules** Charles Chalfant, Maurizio Del Poeta, 2011-01-12 This book attempts to analyze the latest discoveries in sphingolipid biology and how the alteration of their metabolism leads to altered signaling events and to the development of pathological disorders such as cancer cardiovascular diseases asthma diabetes inflammation and infectious diseases

Sphingolipids in Disease Erich Gulbins, Irina Petrache, 2013-04-06 Sphingolipids are lipid components of the plasma membrane of eukaryotic cells with an important function in signaling mechanisms in the cell This book provides insight into the physiological and pathophysiological role of sphingolipids and in particular its derivative ceramide The function of

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Lipid functions      *Fatty Acids and Glycerides* A. Kuksis, 1978-04-01 The advances in lipid biochemistry over the past 25 to 30 years have been dramatic and exciting The elucidation of the pathways of fatty acid biosynthesis and oxidation the delineation of the biogenesis of cholesterol from small molecular weight precursors the structure proof of simple and complex lipids from plants animals and microorganisms are excellent examples of the spectacular advances made during the golden era of lipid biochemistry The multifaceted discoveries in these diverse areas of study could be attributed to development of highly sophisticated column chromatographic techniques for separation and purification of simple and complex lipids The advent of thin layer chromatography as well as gas liquid chromatography provided an explosive impetus to research developments in this field Concomitant advances in mass spectrometry allowed an interface with gas liquid chromatography which spawned even greater insight into the structure of lipids These eventful days of lipid chemistry nearly 25 years ago led to a relatively quiescent period wherein scientists applied these newly available techniques to investigation of the behavior of isolated lipid enzyme systems and to unraveling the intricacies of the metabolic behavior of lipids in the intact cell or whole organisms Then in the early 1960s a decided change in research emphasis developed with the advent of a simple reproducible procedure for the isolation of cell membranes      **Molecular Biology, Biochemistry, and Biophysics**, 2007

## The Enigmatic Realm of **Sphingolipid Biochemistry**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Sphingolipid Biochemistry** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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