

Lipids of Pathogenic Fungi

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**Rajendra Prasad, Mahmoud A.
Ghannoum**



CRC Press
Taylor & Francis Group

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Lipids Of Pathogenic Fungi Lipids Of Pathogenic Fungi:

Lipids of Pathogenic Fungi (1996) Rajendra Prasad, Mahmoud A. Ghannoum, 2017-11-22 Increases in various fungal infections due to Candida Aspergillus Blastomyces Histoplasma spp and Dermatophytes have attracted interest in the biochemistry of the fungal pathogens responsible This book discusses the importance of lipids in pathogenic fungi and how they are involved in infections that pose serious health problems The role of lipids in dimorphism adherence and virulence of fungi is investigated as is their composition and metabolism Several chapters are devoted to examinations of specific pathogenic fungi which will be particularly useful to researchers studying the clinical manifestations of infections caused by these factors Later chapters present possible antifungal agents and nonconventional agents that target the organisms discussed earlier Collectively the contributions to this volume provide an excellent overview of this field This text is essential for practicing clinicians and for everyone involved in the important task of resolving the problems associated with fungal pathogenicity

Lipids of Pathogenic Fungi Rajendra Prasad, Mahmoud Afif Ghannoum, 1996 *Revival: Lipids Of Pathogenic Fungi (1996)*. Rajendra (Jawaharlal Nehru University)|Ghannoum Prasad (Mahmoud A. (Case Western Reserve University), 2018

Lipids of Pathogenic Fungi (1996) Rajendra Prasad, Mahmoud A. Ghannoum, 2017-11-22 Increases in various fungal infections due to Candida Aspergillus Blastomyces Histoplasma spp and Dermatophytes have attracted interest in the biochemistry of the fungal pathogens responsible This book discusses the importance of lipids in pathogenic fungi and how they are involved in infections that pose serious health problems The role of lipids in dimorphism adherence and virulence of fungi is investigated as is their composition and metabolism Several chapters are devoted to examinations of specific pathogenic fungi which will be particularly useful to researchers studying the clinical manifestations of infections caused by these factors Later chapters present possible antifungal agents and nonconventional agents that target the organisms discussed earlier Collectively the contributions to this volume provide an excellent overview of this field This text is essential for practicing clinicians and for everyone involved in the important task of resolving the problems associated with fungal pathogenicity

Lipid Domains, 2015-06-08 Current Topics in Membranes is targeted toward scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading This volume offers an up to date presentation of current knowledge in the field of Lipid Domains Written by leading experts Contains original material both textual and illustrative that should become a very relevant reference material The material is presented in a very comprehensive manner Both researchers in the field and general readers should find relevant and up to date information

Advances in Microbial Physiology, 1978-05-08 *Advances in Microbial Physiology Biochemistry of Lipids, Lipoproteins and Membranes* Dennis E. Vance, J.E. Vance, 2002-12-06 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. Fungal

Biomolecules Vijai Kumar Gupta, Robert L. Mach, S. Sreenivasaprasad, 2015-02-19. Fungi have an integral role to play in the development of the biotechnology and biomedical sectors. The fields of chemical engineering, Agri food, Biochemical, pharmaceuticals, diagnostics and medical device development all employ fungal products with fungal biomolecules currently used in a wide range of applications ranging from drug development to food technology and agricultural biotechnology. Understanding the biology of different fungi in diverse ecosystems as well as their biotrophic interactions with other microorganisms, animals and plants is essential to underpin effective and innovative technological developments. Fungal Biomolecules is a keystone reference integrating branches of fungal product research into a comprehensive volume of interdisciplinary research. As such it reflects state of the art research and current emerging issues in fungal biology and biotechnology, reviews the methods and experimental work used to investigate different aspects of fungal biomolecules, provides examples of the diverse applications of fungal biomolecules in the areas of food, health and the environment, is edited by an experienced team with contributions from international specialists. This book is an invaluable resource for industry based researchers, academic institutions and professionals working in the area of fungal biology and associated biomolecules for their applications in food technology, microbial and biochemical process, biotechnology, natural products, drug development and agriculture. **Current Topics in Medical Mycology** Michael R. McGinnis, Marcel

Borgers, 2012-12-06. This latest volume in the Current Topics in Medical Mycology series brings together internationally recognized researchers to summarize current topics of interest to medical mycologists and other scientists who are working in microbiology and immunology. A blend of contemporary authoritative reviews and summaries of new advancements and future directions. Volume 3 aims to promote the interdisciplinary use of medically important fungi in pathogenesis, epidemiology, mycotoxins, taxonomy and other areas where basic applied and clinical science are used. **The Metabolism,**

Structure, and Function of Plant Lipids Paul K. Stumpf, J. Brian Mudd, W. David Nes, 2012-12-06. 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

Advances in Lipid Research Rodolfo Paoletti, David Kritchevsky, 2014-06-28 Advances in Lipid Research Volume 23 provides information pertinent to mammalian as well as plant metabolism This book presents important data on apoproteins which may offer a foothold for further probes of the genetics underlying increased susceptibility to ischemic heart disease Organized into seven chapters this volume begins with an overview of the molecular biology of human apolipoproteins B and E This text then explains the lipid metabolism of dermatophytes and describes their lipid composition and how it may be modulated Other chapters consider the function distribution and biosynthesis of the sterols of fungi and examine the influences of fungal sterols on membrane fluidity This book discusses as well the biosynthesis and degradation of platelet activating factor PAF as well as its physiological function The final chapter deals with one specific area of PAF activity namely renal processes This book is a valuable resource for biologist biochemists chemists and clinicians

Glossary of Biotechnology & Agrobiotechnology Terms Kimball Nill, 2016-09-15 The 5th edition of Glossary of Biotechnology and Agrobiotechnology Terms will be a significant expansion of the previous 4th edition In the past decade many new terms have been introduced due to the appearance and application of new crop plant breeding methods as well as technical advances in genetics molecular biology cell biology and agricultural research The terms associated with important new technologies have been added to this new edition including terms related to Zinc Finger Proteins Transcription Activator Like Effectors TALEs TALE Nucleases Genome Editing CRISPR Cas 9 Gene editing Systems Oligonucleotide mediated Mutagenesis and RNA Interference as well as hundreds of others The 5th edition like previous editions will be useful for regulators of agricultural biotechnology around the world customers biotech patent officials venture capitalists and agbiotech company executives as well as biopharmaceutical industries and academics

Cell compartments and intracellular trafficking of lipids and proteins: Impact on biomedicine Silvana Zanlungo, Carlos Enrich, Volker Gerke, Emily Eden, Maria Isabel Colombo, 2022-12-30

Lipid Biotechnology Tsung Min Kuo, Harold Gardner, 2002-01-22 This text presents the latest advances in supercritical fluid technology biocatalysis bioprocess engineering and crop breeding It offers an in depth review of the most recent principles and approaches utilized in the development and design of lipids for cosmetic industrial and pharmaceutical and food products Discussing a variety of lipid active enzymes from animal plant fungal and microbial

sources Lipid Biotechnology covers modern techniques in genetic engineering for the modification of conventional oilseed crops and biosynthetic pathways for cutin polymers flavor volatiles oxylipins and terpenoid compounds It chronicles the use of lipases and phospholipases in the creation of structured lipids and fats including cocoa butter low calorie fats and Betapol and emerging methods using supercritical carbon dioxide as a benign solvent for lipid analysis fractionation and enzymatic reaction It also covers reaction conditions reactor design solvent selection immobilization technology and enzyme sources for optimal large scale manufacturing and describes the formation of oxylipins through the lipoxygenase pathway as well as other unusual fatty acids The authors provide in depth analyses of the structure metabolic and enzymatic functions and mechanisms defensive and catalytic properties industrial uses and other applications of oxylipins and lipases

Bibliography of Agriculture with Subject Index ,1979-10 Plant Lipids Denis J. Murphy,2020-02-03 New research tools have revealed many surprising aspects of the dynamic nature of lipids and their participation in processes such as recognition intra and inter cellular signalling deterrence and defense against pathogens membrane trafficking and protein function This is in addition to new information on the more established roles of plant lipids as structural components of membranes and as long term storage products Plant lipids are also increasingly being seen as sources of a new generation of environmentally friendly biodegradable and renewable industrial products including biopolymers and high grade lubricants Plant Lipids Biology Utilisation and Manipulation provides a broad overview of plant lipid research and its many applications Linking various disciplines the editor brings together researchers from major international laboratories to review the history and current state of progress in this quickly evolving field The text starts by providing a fascinating historical perspective on the study of plant lipids from its inception as a branch of alchemy in the seventeenth century to the current post genomic era It then offers a detailed discussion on the formation modification and utilization of fatty acids This is followed by an exploration of the major classes of macromolecular structures formed by plant lipids including bilayer membranes and storage bodies From there the contributors consider other types of macromolecular lipid assemblies in plants examining proteins and the key plant lipid structure the cuticle The final chapters look at diverse classes of plant lipids that are linked to various aspects of signaling This text provides an excellent resource for researchers and professionals in plant biochemistry molecular biology biotechnology and genetics in both the academic and industrial sectors It also meets the needs of students looking for a comprehensive introduction to this field as well as direction for future research Fungal Lipid Biochemistry Yuanda Song,2023-07-26 Fungal Lipid Biochemistry explores the intricate biochemistry of fungal and microbial lipids The book focuses on recent advances in our knowledge about the distribution classification and biochemistry of fungal lipids The book is divided into four sections starting with an introduction to fungal lipids which includes definition classification nomenclature and some historical aspects of fungal lipid research This is followed by an overview of fungal lipids and environmental and nutritional cultural conditions affecting lipid production The second section contains four

chapters that explain the metabolism of fatty acids their biosynthetic pathways together with their storage mainly in the form of triacylglycerols The latter includes a key description of the recently discovered lipid droplet acting as a highly specific cellular compartment for the storage of neutral lipids The third section contains five chapters concerned with the relatively recent interpretation of other major lipid classes which include glycerophospholipids sphingolipids aliphatic hydrocarbons sterols carotenoids and polyprenols and their occurrence and biosynthesis The final section covers lipid metabolism during fungal development and sporulation Key features Extensive coverage of fungal lipid biochemistry with a focus on recent knowledge Includes chapters for specific lipid classes with notes on their metabolism Gives knowledge about the role of lipids in fungal growth and development Provides references for further reading This book is a comprehensive reference for academics scientific researchers and industrial scientists in biotechnology food science and nutritional health who require information about fungal lipid composition and biochemistry [Research Grants Index](#) National Institutes of Health (U.S.). Division of Research Grants,1975 **Research Awards Index** ,1978 **Advances in Planar Lipid Bilayers and Liposomes** Aleš Iglič,2011-05-25 Advances in Planar Lipid Bilayers and Liposomes volumes cover a broad range of topics including main arrangements of the reconstituted system namely planar lipid bilayers as well as spherical liposomes The invited authors present the latest results of their own research groups in this exciting multidisciplinary field Incorporates contributions from newcomers and established and experienced researchers Explores the planar lipid bilayer systems and spherical liposomes from both theoretical and experimental perspectives Serves as an indispensable source of information for new scientists

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