

Biologically Active Natural Products

Microbial Technologies and
Phyto-Pharmaceuticals in Drug Development



Debarshi Kar Mahapatra | Swati Gokul Talele
Tatiana G. Volova | A. K. Haghi
Editors

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Biologically Active Natural Products:

Biologically Active Natural Products Stephen J. Cutler, Horace G. Cutler, 1999-07-27 *Biologically Active Natural Products* Pharmaceuticals demonstrates the connections between agrochemicals and pharmaceuticals and explores the use of plants and plant products in the formulation and development of pharmaceuticals Experts from around the world examine a multitude of topics including evaluation of extracts from tropical plants for p *Bioactive Natural Products* Steven M. Colegate, Russell J. Molyneux, 2007-12-14 Following the successful format of the original this new edition presents applications of the most recent techniques for the detection isolation and structural determination of bioactive natural products It features new case studies and illustrations that demonstrate applications of techniques covered in the book Complementing as much as replacing the first edition most of the contributors are new The text includes updates on chemical extraction and NMR based structure determination and new contributions on liquid chromatography linked with mass and NMR spectroscopy dereplication approaches assessment of source material for natural products and novel bioassay development **Chemistry and Biotechnology of Biologically Active Natural Products** Á Gottsegen, G. Kovács, 1988

Biologically Active Natural Products from Plants and Their Endophytes Katherine Nalani Maloney, 2007 **Chemical Biology of Natural Products** David J. Newman, Gordon M. Cragg, Paul Grothaus, 2017-09-22 *Chemical Biology of Natural Products* This unique long awaited volume is designed to address contemporary aspects of natural product chemistry and its influence on biological systems not solely on human interactions The subjects covered include discovery isolation and characterization biosynthesis biosynthetic engineering pharmaceutical and other applications of these compounds Each chapter begins with a brief and simple introduction to the subject matter and then proceeds to guide the reader towards the more contemporary cutting edge research in the field with the contributing authors presenting current examples from their own work in order to exemplify key themes Topics covered in the text include genome mining heterologous expression natural product synthesis biosynthesis glycosylation chemical ecology and therapeutic applications of natural products both current and potential *Stereoselective Synthesis of Drugs and Natural Products* Vasyl Andrushko, Natalia Andrushko, 2013-08-16 Brings together the best tested and proven stereoselective synthetic methods Both the chemical and pharmaceutical industries are increasingly dependent on stereoselective synthetic methods and strategies for the generation of new chiral drugs and natural products that offer specific 3 D structures With the publication of *Stereoselective Synthesis of Drugs and Natural Products* researchers can turn to this comprehensive two volume work to guide them through all the core methods for the synthesis of chiral drugs and natural products *Stereoselective Synthesis of Drugs and Natural Products* features contributions from an international team of synthetic chemists and pharmaceutical and natural product researchers These authors have reviewed the tremendous body of literature in the field in order to compile a set of reliable tested and proven methods alongside step by step guidance This practical resource not only explores synthetic methodology but also

reaction mechanisms and applications in medicinal chemistry and drug discovery The publication begins with an introductory chapter covering general principles and methodologies nomenclature and strategies of stereoselective synthesis Next it is divided into three parts Part One General Methods and Strategies Part Two Stereoselective Synthesis by Bond Formation including C C bond formation C H bond formation C O bond formation C N bond formation Other C heteroatom formation and other bond formation Part Three Methods of Analysis and Chiral Separation References in every chapter serve as a gateway to the literature in the field With this publication as their guide chemists involved in the stereoselective synthesis of drugs and natural products now have a single expertly edited source for all the methods they need

Bioactive Compounds from Natural Sources Corrado Tringali, 2011-09-27 The first edition of Bioactive Compounds from Natural Sources was published in a period of renewed attention to biologically active compounds of natural origin This trend has continued and intensified natural products are again under the spotlight in particular for their possible pharmacological applications Largely focusing on natural products

Bioactive Compounds from Natural Sources, Second Edition Corrado Tringali, 2011-09-27 The first edition of Bioactive Compounds from Natural Sources was published in a period of renewed attention to biologically active compounds of natural origin This trend has continued and intensified natural products are again under the spotlight in particular for their possible pharmacological applications Largely focusing on natural products as lead compounds in drug discovery Bioactive Compounds from Natural Sources Second Edition Natural Products as Lead Compounds in Drug Discovery is actually a completely new volume containing surveys of selected recent advances in an interdisciplinary area covering chemistry of natural products medicinal chemistry biochemistry and other related topics Written by some of the most reputed scientists in the field this second edition includes new chapters from authors who contributed to the first edition as well as many chapters compiled by new authors Introducing the reader to strategies and methods in the search for bioactive natural products this book covers topics including Natural sources of bioactive compounds such as aquatic cyanobacteria filamentous fungi and tropical plants The tremendous potentiality of metabolic engineering of natural products biosynthesis The contribution of emerging or developing technologies to the study of bioactive natural compounds namely computational methods and circular dichroism The potential of natural or natural derived compounds for specific therapeutic applications treatment of viral diseases regulation of hypoxia inducible factor antimalarials modulation of angiogenesis and antitumor and wound healing activity Selected examples of natural product families and related synthetic analogues namely polyphenols and camptothecins Compiled for researchers and Ph D students working in interdisciplinary fields this book will also be appreciated by readers without a background in chemistry interested in bioactive natural products their biological and pharmacological properties and their possible use as chemopreventive or chemotherapeutic agents Conversely the biological and pharmacological data and methods are accessible by chemists

Bioactive Compounds from Natural Sources Corrado Tringali, 2003-09-02 Interest in obtaining biologically active

compounds from natural sources has recently spiked due to their low toxicity complete biodegradability availability from renewable sources and in most cases low cost Taking an interdisciplinary approach Bioactive Compounds from Natural Sources Isolation Characterization and Biological Properties covers general methods and main topics in the research field of bioactive natural products The book describes general screening methods modern HPLC hyphenated techniques and NMR methods in the structural elucidation of compounds and devotes individual chapters to specific topics of research Surveys on compounds displaying important pharmacological activities are presented in chapters devoted to Mexican medicinal plants anti tumor drugs of natural origin cancer chemopreventive flavonoids and metabolites displaying anti HIV antioxidative antimalarial and anti inflammatory activity The final chapters are devoted to representative examples of research into marine metabolites immunomodulating marine glycolipids and surveys of bioactive compounds from marine opisthobranchs and Japanese soft corals With its focus on modern approaches to the isolation of biologically active natural products this book encourages interdisciplinary work among chemists pharmacologists biologists botanists and agronomists with an interest in bioactive natural products *Biomedical Index to PHS-supported Research* ,1990 Research Awards Index ,1986

Biologically Active Natural Products Debarshi Kar Mahapatra, Swati Gokul Talele, Tatiana G. Volova, A. K.

Haghi, 2020-12-23 Biologically active natural products and their substructures have long been valuable starting points for medicinal chemistry and drug discovery This new volume explores biologically active natural products and their use in microbial technologies and as phyto pharmaceuticals in drug development It presents detailed scientific principles and recent research on applications of nanotechnology in diagnostics and drug delivery Topics include pharmacotherapeutically active proteins and peptides the biotechnological potential of hydrogen oxidizing bacteria synthesis and production synthetic colorants pigments dyes and lakes and more The use of various plants is discussed in several chapters including Artemisia Asteraceae Abutilon indicum Prosopis juliflora Acacia arabica Aloe barbadensis Tabermontana divaricate Linn among others With the information presented in Biologically Active Natural Products Microbial Technologies and Phyto Pharmaceuticals in Drug Development scientists faculty and graduate students will gain a unique insight into nanotechnology and natural pharmaceuticals today with practical implementation in various industrial sectors Natural Bio-active Compounds Mohd Sayeed Akhtar, Mallappa Kumara Swamy, Uma Rani Sinniah, 2019-09-06 Bioactive compounds produced by natural sources such as plants microbes endophytic fungi etc can potentially be applied in various fields including agriculture biotechnology and biomedicine Several bioactive compounds have proved to be invaluable in mediating plant microbe interactions and promoting plant growth and development Due to their numerous health promoting properties these compounds have been widely used as a source of medication since ancient times However there is an unprecedented need to meet the growing demand for natural bioactive compounds in the flavor and fragrance food and pharmaceutical industries Moreover discovering new lead molecules from natural sources is essential to overcoming the rising number of new diseases In this

regard natural bioactive compounds hold tremendous potential for new drug discovery Therefore this field of research has become a vital area for researchers interested in understanding the chemistry biosynthetic mechanisms and pharmacological activities of these bioactive metabolites This book describes the basics of bioactive plant compounds their chemical properties and their pharmacological biotechnological properties with regard to various human diseases and applications in the drug cosmetics and herbal industries It offers a valuable asset for all students educators researchers and healthcare experts involved in agronomy ecology crop science molecular biology stress physiology and natural products The Metabolic Effects of Echinochrome Pigment Extracted from Sea Urchin on Diabetic Rats Ayman Mohamed,2018-01-16

Doctoral Thesis Dissertation from the year 2018 in the subject Biology Zoology grade 4 Cairo University Faculty of Science language English abstract Diabetes mellitus is one of the most public metabolic disorders It is mainly classified into type 1 and type 2 Echinochrome Ech is a pigment from sea urchins that has antioxidant anti microbial anti inflammatory and chelating abilities The present study aimed to investigate the anti diabetic mechanisms of Ech pigment in streptozotocin induced diabetic rats Thirty six male Wistar albino rats were divided into two main groups 18 rats group Each group was divided into 3 subgroups 6 rats subgroup control diabetic and Ech subgroups Diabetic models were induced by a single dose of streptozotocin 60 mg kg i p for type 1 diabetes and by a high fat diet for 4 weeks before the injection of streptozotocin 30 mg kg i p for type 2 diabetes Diabetic groups were treated orally with Ech 1 mg kg body weight in 10% DMSO daily for 4 weeks Ech groups showed a reduction in the concentrations of glucose globulins triglycerides TG total cholesterol TC low density lipoprotein cholesterol LDL C creatinine urea uric acid malondialdehyde MDA and the activities of arginase aspartate aminotransferase AST alanine aminotransferase ALT alkaline phosphatase ALP and gamma glutamyltransferase GGT While it caused general increase in the levels of insulin total bilirubin TB direct bilirubin DB indirect bilirubin IB total protein TP albumin nitric oxide NO and the activities of glucose 6 phosphate dehydrogenase G6PD hexokinase glutathione S transferase GST superoxide dismutase SOD and glutathione reduced GSH The histopathological investigation showed partial restoration of pancreatic islet cells and clear improvement in the hepatic and kidney architecture The results of this study clearly show that Ech has anti diabetic potential in both types of diabetes The possible anti diabetic mechanisms of Ech involving improved glucose metabolism restoration of cells improve insulin secretion improve insulin signaling and antioxidant activity

Biologically Active Natural Products Stephen J. Cutler,Horace G. Cutler,1999-07-27 Biologically Active Natural Products Pharmaceuticals demonstrates the connections between agrochemicals and pharmaceuticals and explores the use of plants and plant products in the formulation and development of pharmaceuticals Experts from around the world examine a multitude of topics including evaluation of extracts from tropical plants for potential anticancer activity and cancer chemopreventive activity use of Chinese lacquer tree sap products as pharmaceutical intermediates and new approaches to drug discovery from the rainforest *Natural Bio-active Compounds* Mallappa Kumara Swamy,Mohd Sayeed

Akhtar,2019-09-19 Nature has consistently provided human beings with bioactive compounds that can be used directly as drugs or indirectly as drug leads Some of the major classes of natural bioactive compounds include phenolics alkaloids tannins saponins lignin glycosides terpenoids and many more They possess a broad range of biological activities and are primarily useful in the treatment of various health issues At the same time the search for new and novel drugs is never ending and despite major advances in synthetic chemistry nature remains an essential resource for drug discovery Therefore more and more researchers are interested in understanding the chemistry clinical pharmacology and beneficial effects of bioactive compounds in connection with solving human health problems This book presents a wealth of information on natural metabolites that have been or are currently being used as drugs or leads for the discovery of new drugs In addition it highlights the importance of natural products against various human diseases and their applications in the drug nutraceuticals cosmetics and herbal industries Accordingly the book offers a valuable resource for all students educators and healthcare experts involved in natural product research phytochemistry and pharmacological research

Chemical Investigation of Biologically Active Alkaloids from Marine Sponges Nathaniel Lee Segraves,2005 Proceedings of the Plant Growth Regulator Society of America Plant Growth Regulator Society of America. Meeting,1985

Biotechnology of Bioactive Compounds Vijai Kumar Gupta,Maria G. Tuohy,Anthonia O'Donovan,Mohtashim Lohani,2015-01-22 Bioactive compounds play a central role in high value product development in the chemical industry Bioactive compounds have been identified from diverse sources and their therapeutic benefits nutritional value and protective effects in human and animal healthcare have underpinned their application as pharmaceuticals and functional food ingredients The orderly study of biologically active products and the exploration of potential biological activities of these secondary metabolites including their clinical applications standardization quality control mode of action and potential biomolecular interactions has emerged as one of the most exciting developments in modern natural medicine Biotechnology of Bioactive Compounds describes the current stage of knowledge on the production of bioactive compounds from microbial algal and vegetable sources In addition the molecular approach for screening bioactive compounds is also discussed as well as examples of applications of these compounds on human health The first half of the book comprises information on diverse sources of bioactive compounds ranging from microorganisms and algae to plants and dietary foods The second half of the book reviews synthetic approaches as well as selected bioactivities and biotechnological and biomedical potential The bioactive compounds profiled include compounds such as C phycocyanins glycosides phytosterols and natural steroids An overview of the usage of bioactive compounds as antioxidants and anti inflammatory agents anti allergic compounds and in stem cell research is also presented along with an overview of the medicinal applications of plant derived compounds Biotechnology of Bioactive Compounds will be an informative text for undergraduate and graduate students of bio medicinal chemistry who are keen to explore the potential of bioactive natural products It also provides useful information for scientists

working in various research fields where natural products have a primary role

Biological & Agricultural Index ,1925

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