

Antimalarial

No side effects

Nontoxic

Antioxidant



Economical

Anti-inflammatory

Antimicrobial

Anticancer

Antiviral

Antidiabetic

Bioactive Compounds From Plants

Mallappa Kumara Swamy



Bioactive Compounds From Plants:

Bioactive Compounds from Plants Derek J. Chadwick, Joan Marsh, 2008-04-30 Useful throughout history for their medical as well as other benefits plant derived compounds have gained particular importance recently due to environmental factors The isolation and characterization of plant products the identification of their role in the plant and ways of synthesizing identical compounds or more potent analogues are covered Also includes methods of culturing plant tissues and genetic engineering as a means of increasing the yield of desired substances from plants Special emphasis is placed on plants previously unknown to Western scientists *Bioactive Compounds from Plant Origin* Taylor & Francis Group, 2021-12-13

This new volume explores the importance of phytochemicals from plants in therapeutics and human health Its focus is on the extraction of bioactive compounds and their applications in human health **Phytochemical Dictionary** Herbert

Baxter, J.B. Harborne, Gerald P. Moss, 1998-12-16 A vast array of natural organic compounds the products of primary and secondary metabolism occur in plants This dictionary provides basic information including structural formulae on plant constituents It profiles over 3000 substances from phenolics and alkaloids through carbohydrates and plant glycosides to oils and triterpenoids For each substance the author presents the trivial name synonyms structural type chemical structure showing stereochemistry molecular weight and formula natural occurrence biological activity and commercial or other use Key references are provided for each class and subclass *Water Extraction of Bioactive Compounds* Herminia

Dominguez, Maria Jesus Gonzalez Munoz, 2017-09-20 *Water Extraction of Bioactive Compounds From Plants to Drug Development* draws together the expert knowledge of researchers from around the world to outline the essential knowledge and techniques required to successfully extract bioactive compounds for further study The book is a practical tool for medicinal chemists biochemists pharmaceutical scientists and academics working in the discovery and development of drugs from natural sources The discovery and extraction of bioactive plant compounds from natural sources is of growing interest to drug developers adding greater fuel to a simultaneous search for efficient green technologies to support this Particularly promising are aqueous based methods as water is a cheap safe and abundant solvent *Water Extraction of Bioactive Compounds From Plants to Drug Development* is a detailed guide to the fundamental concepts and considerations needed to successfully undertake such processes supported by application examples and highlighting the most influential variables Beginning with an introduction to plants as sources of drugs the book highlights the need for a move towards both more rational and greener techniques in the field and presents multiple innovative water based strategies for the discovery and extraction of bioactive constituents of botanicals A broad range of available techniques are reviewed including conventional and pressurized hot water extraction techniques intensified processes such as microwave assisted ultrasound assisted processes and enzyme assisted extraction and processes using combined techniques Covers the theoretical background and range of techniques available to researchers helping them to select the most appropriate extraction method for their needs

Presents up to date and cutting edge applications by international experts Highlights current use and future potential for industrial scale applications Offers a thorough introduction to plants as sources of drugs highlighting strategies for the discovery of novel bioactive constituents of botanicals

Bioactive Compounds in the Storage Organs of Plants

Hosakatte Niranjana Murthy, Kee Yoeup Paek, So-Young Park, 2024-03-30 This book offers a comprehensive and authoritative review of bioactive substances found in plant underground stems roots rhizomes corms and tubers from all around the world Tubers and starchy roots are plants that store edible starch content in underground stems roots rhizomes corms and tubers They are a key source for both human and animal consumption and are rich in carbohydrates They are widely used as industrial crops as well Phytochemicals found in tubers and roots such as phenolics terpenoids and alkaloids have anti inflammatory anti cancer hypoglycemic hypocholesterolemic and antibacterial properties Except for common potatoes sweet potatoes and cassava the nutritional and health benefits of many tuberous crops have not yet been adequately investigated This book sheds new insights into these topics by addressing several plant metabolites found in storage organs which can be seen as scientifically neglected even though they have a high economic relevance as food and pharmaceutical sources Divided into 6 parts this book discusses how bioactive chemicals found in plant storage organs are synthesized and how their bioactive principles are specifically expressed in underground stems roots rhizomes corms and tubers Additionally each chapter includes background information on the plant its parts its nutritional makeup chemical components and biological functions Given its breadth the book appeals to a wide readership from scholars through graduate and post graduate students to professionals in the industry

Plant-derived Bioactives

Mallappa Kumara Swamy, 2020-06-27 Plants produce a vast number of bioactive compounds with different chemical scaffolds which modulate a diverse range of molecular targets and are used as drugs for treating numerous diseases Most present day medicines are derived either from plant compounds or their derivatives and plant compounds continue to offer limitless reserves for the discovery of new medicines While different classes of plant compounds like phenolics flavonoids saponins and alkaloids and their potential pharmacological applications are currently being explored their curative mechanisms are yet to be understood in detail This book is divided into 2 volumes and offers detailed information on plant derived bioactive compounds including recent research findings Volume 1 Plant derived Bioactives Chemistry and Mode of Action discusses the chemistry of highly valued plant bioactive compounds and their mode of actions at the molecular level Volume 2 Plant derived Bioactives Production Properties and Therapeutic Applications explores the sources biosynthesis production biological properties and therapeutic applications of plant bioactives Given their scope these books are valuable resources for members of the scientific community wishing to further explore various medicinal plants and the therapeutic applications of their bioactive compounds They appeal to scholars teachers and scientists involved in plant product research and facilitate the development of new drugs

Bioactive Compounds of Medicinal Plants Megh R. Goyal, Ademola O. Ayeleso, 2018-07-04 This volume sheds new light on the immense

potential of medicinal plants for human health from different technological aspects It presents new research on bioactive compounds in medicinal plants that provide health benefits including those that have proven especially effective in treating and managing diabetes mellitus and hypertension It looks at the medicinal properties antioxidant capacity and antimicrobial activity of plants and provides scientific evidence on the use of medicinal plants in the treatment of certain diseases Many of the plants described in the chapters are easily accessible and are believed to be effective with fewer side effects in comparison to modern drugs in the treatment of different diseases

Bioactive Compounds in Plants Aksel

Bernhoft,2010 *Plant Secondary Metabolites for Human Health* Megh R. Goyal,P. P. Joy,Hafiz Ansar Rasul Suleria,2019-08-21 This new book deals with recent advanced research on natural products and health promoting foods that work to reduce the risk of diseases while enhancing overall well being Plant based functional foods are known to contain compounds also referred to as phytochemicals in the leaves stems flowers and fruits of certain plants These plant products are drawing the attention of researchers because of their demonstrated beneficial effects against disease particularly diabetes hypertension cancer neurodegenerative diseases among others The medicinal and nutritional use of plant secondary metabolites is a hot topic and has been receiving extensive attention from both health professionals and the public This book presents new information on the extraction of bioactive compounds from plants plant based drugs and the innovative use of plant based drugs for human health

Biochemical Targets of Plant Bioactive Compounds Gideon Polya,2003-05-15 When introduced to the human body bioactive metabolites produced by plants for self defense bind to particular biochemical targets most notably to proteins involved in signaling by hormones and neurotransmitters This essentially is the basis for the effects of herbal medicine While herbal medicine preparations may act by complex synergistic interactions molecular explanations of herbal medicine efficacy and side effects ultimately require definition of the biochemical targets of individual plant bioactive constituents *Biochemical Targets of Plant Bioactive Compounds* is a comprehensive and user friendly reference guide to biochemical targets of plant defensive compounds With 500 pages of tables it presents a mine of succinctly summarized information relating to bioactive compound structures plant sources biochemical targets and physiological effects that can be readily accessed via chemical compound plant genus plant common name and subject indexes With introductory chapters providing reviews of the structural diversity of plant defensive compounds and biochemistry this book is an invaluable reference for biomedical professionals in the fields of alternative complementary medicine natural product chemistry toxicology pharmacology and botany

Plant-derived Bioactives Mallappa Kumara Swamy,2020-05-11 Plants produce a vast number of bioactive compounds with different chemical scaffolds which modulate a diverse range of molecular targets and are used as drugs for treating numerous diseases Most present day medicines are derived either from plant compounds or their derivatives and plant compounds continue to offer limitless reserves for the discovery of new medicines While different classes of plant compounds like phenolics flavonoids saponins and alkaloids and

their potential pharmacological applications are currently being explored their curative mechanisms are yet to be understood in detail This book is divided into 2 volumes and offers detailed information on plant derived bioactive compounds including recent research findings Volume 1 Plant derived Bioactives Chemistry and Mode of Action discusses the chemistry of highly valued plant bioactive compounds and their mode of actions at the molecular level Volume 2 Plant derived Bioactives Production Properties and Therapeutic Applications explores the sources biosynthesis production biological properties and therapeutic applications of plant bioactives Given their scope these books are valuable resources for members of the scientific community wishing to further explore various medicinal plants and the therapeutic applications of their bioactive compounds They appeal to scholars teachers and scientists involved in plant product research and facilitate the development of innovative new drugs

Bioactive Compounds from Multifarious Natural Foods for Human Health Hafiz Ansar Rasul Suleria, Megh R. Goyal, Huma Bader Ul Ain, 2022-08-01 Divided into two sections the volume first examines health claims of food based bioactive compounds which are extra nutritional constituents that typically occur in small quantities in foods This section lays out the concepts of extraction of food based bioactive molecules along with both conventional and modernized extraction techniques The book goes to present new research on health claims of bioactive compounds from medicinal plants their importance and health perspectives Both sections cover the various pharmacological and therapeutic aspects of bioactive compounds along with their methods of extraction their phytochemistry their pharmacological and biological activities their medicinal properties and their applications for disease management and prevention This volume sheds new light on the potential of natural and plant based foods for human health from different technological aspects contributing to the ocean of knowledge on food science and technology

Bioactive Compounds from Plants as Antibacterial and Antioxidants AbdulMuhsin Shami, 2014-11-14 Natural products from different sources such as plants have played an important role in the prevention of infectious diseases and are of general use in health care Bioactive compounds that are extracted from natural products are generally regarded as effective and safe compared to synthetic compounds Synthetic substances such as antibiotics produced by the pharmaceutical industry have in many cases caused side effects such as nausea vomiting epigastric pain abdominal discomfort diarrhea and have caused the emergence of resistance by pathogenic bacteria to such an extent that an increasing number of researchers are seeking to produce biologically active compounds from natural sources One important source of natural products are medicinal plants which have been used as traditional medicine in different parts of the world for many applications such as the treatment of infectious diseases diarrhea hypertension skin diseases and other conditions

Bioactive Compounds and Nutraceuticals from Plant Sources Charanjit S. Riar, Parmjit S. Panesar, 2024-07-05 This new volume focuses on the technology of bioactive compounds and nutraceuticals from fruit and vegetable sources from cereal grain sources and from cereal processing by products The chapters look at the extraction technologies analytical techniques and potential health prospects specifically

from fruits and vegetables sources They cover plants such plantation crops roots and tubers as well as fruit and vegetable processing byproducts They also consider bioactive compounds and nutraceuticals from major and minor cereal grain sources and from cereal processing byproducts This new book provides valuable insight for food technologists and those in related areas of research Bioactive Compounds and Nutraceuticals from Plant Sources Extraction Technology Analytical Techniques and Potential Health Prospects is the companion volume to Bioactive Compounds and Nutraceuticals from Dairy Marine and Nonconventional Sources Extraction Technology Analytical Techniques and Potential Health Prospects by the same editors

Biosynthesis of Bioactive Compounds in Medicinal and Aromatic Plants Nitish Kumar,Ravi S. Singh,2023-08-11 Plant bioactive compounds are plant based natural products that display a variety of pharmacological applications These bioactive compounds are important as medicines pigments and flavorings since most of the pharmaceutical industries are highly dependent on medicinal plants and their extraction The types and concentrations of bioactive compounds produced by plants are determined by the species genotype physiology developmental stage and environmental factors during growth determining the physiological adaptive responses employed by various plant taxonomic groups in coping with the stress and defensive stimuli In the past two decades there has been a renewed interest in the study of conventional aspects such as elicitors and biotic and abiotic stress factors that influence secondary metabolism during in vitro and in vivo growth of plants the application of molecular biology tools and techniques are facilitating increased understanding of the signaling processes and pathways involved in the bioactive compounds production in subcellular cellular organ and whole plant systems during in vivo and in vitro growth with application in the metabolic engineering of biosynthetic pathways intermediates Biosynthesis and Manipulation of Bioactive compounds in Medicinal and Aromatic Plants provides a comprehensive introduction and review of the state of the art biotechnological tools used in enhancement of bioactive compounds in medicinal and aromatic plants Readers will find a systematic overview of techniques such as Omics Crisper Cas9 and RNAi to enhance plant bioactive contents including various in vitro techniques hairy root culture and transgenic technology to enhance plant bioactive contents using plant tissue culture approaches The chapters provide an overview of the role of induced mutation biotic and abiotic stress to increase the bioactive contents in plants plus the role of endophytes to enhance the contents of plant bioactive compounds and standard operating procedures using hydroponics system of cultivation for significant enhancement of bioactive compounds This book serves as a single source for researchers working in plant secondary metabolites and the pharmaceutical industry

Phytochemicals in Vegetables: A Valuable Source of Bioactive Compounds Spyridon A. Petropoulos,Isabel C.F.R. Ferreira,Lilian Barros,2018-11-15 Phytochemical compounds are secondary metabolites that plants usually synthesize for their own protection from pests and diseases Phytochemical biosynthesis is also triggered under specific environmental conditions They cannot be classified as essential nutrients since they are not required at specific amounts for life sustenance Phytochemicals in Vegetables A Valuable Source

of Bioactive Compounds presents information about the phytochemical common and scarce content of several cultivated vegetables as well as their health and therapeutic effects based on in vitro in vivo animal and clinical studies Chapters also cover recent research findings about their mode of action bioavailability interactions with other biological matrices and pharmacokinetics Moreover the book gives special attention to the factors that may alter and modulate bioactive compound content including both cultivation practices and post harvest treatments that aim towards the production of high quality and healthy foods Researchers public health workers consumers and members of the food industry will find this book to be a useful reference on the variety of phytochemicals present in vegetables

Human Health Benefits of Plant Bioactive Compounds Megh R. Goyal, Hafiz Ansar Rasul Suleria, 2019-07-23 Focusing on the importance of functional foods and their secondary metabolites for human health this volume presents new insights with scientific evidence on the use of functional foods in the treatment of certain diseases The plants covered and their bioactive compounds are easily accessible and are believed to be effective with fewer side effects in comparison with modern drugs in the treatment of different diseases The plants contain chemical compounds that can modify and modulate biological systems eliciting therapeutic effects Some plants and derived products mentioned include black carrot olive oil citrus peel grapes candy leaf cereals and grains and green and black tea The volume is divided into four sections that cover these topics Functional foods for human health the available sources biochemistry structural composition and different biological activities especially antioxidant activity Pharmacological aspects of fruits and vegetables the extraction of bioactive molecules phytochemistry and biological activities of a selection of plants Pharmacological aspects of natural products bioactive compounds structural attributes bioactivity of anthocyanin piceatannol and a review of the ethnobotany and medicinal properties of green and black tea Pharmacological aspects of cereals and grains the health benefits of flaxseed wheatgrass juice and use and therapeutic potential as supplements for disease management Phytochemical Dictionary J. B. Harborne, H. Baxter, 1995

Therapeutic Use of Medicinal Plants and their Extracts: Volume 2 A.N.M. Alamgir, 2018-06-23 This book starts with a general introduction to phytochemistry followed by chapters on plant constituents their origins and chemistry but also discussing animal microorganism and mineral based drugs Further chapters cover vitamins food additives and excipients as well as xenobiotics and poisons The book also explores the herbal approach to disease management and molecular pharmacognosy and introduces methods of qualitative and quantitative analysis of plant constituents Phytochemicals are classified as primary e.g carbohydrates lipids amino acid derivations etc or secondary e.g alkaloids terpenes and terpenoids phenolic compounds glycosides etc metabolites according to their metabolic route of origin chemical structure and function A wide variety of primary and secondary phytochemicals are present in medicinal plants some of which are active phytomedicines and some of which are pharmaceutical excipients Plant Extracts Cristina Delerue Matos, Francisca Rodrigues, 2022-01-25 Society has recently demonstrated a high level of awareness and responsibility concerning

environmental issues The interest in bioactive compounds extracted from natural sources has increased due to their potential application as active ingredients in several industries particularly the cosmetic food and pharmaceutical industries Plants are rich sources of phenolic compounds that have been widely studied due to their health promoting properties namely antioxidant anti carcinogenic and anti inflammatory activities among others Extraction is usually the limiting analytical step in the yield of bioactive compounds From a green point of view many extraction techniques have been employed as potential candidates to replace conventional methods such as ultrasound assisted extraction UAE pressurized liquid extraction PLE microwave assisted extraction MAE supercritical fluid extraction SFE pulsed electric field extraction and enzyme assisted extraction In this Special Issue we focus our attention on the chemical characterization of plant extracts and their bioactive composition focusing also on in vitro cell assays and molecular tools The issue comprises original research articles as well as a review on topics such as phenolic profile radical scavenging capacity in vitro cell assays comet assay and antimicrobial capacity We close this Special Issue with a review paper that focuses on the pharmacological activities of quercetin one of the principal polyphenols With this we aim to provide a contemporary overview of the advantages of bioactive compounds extracted from plants

Decoding **Bioactive Compounds From Plants**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Bioactive Compounds From Plants**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Bioactive Compounds From Plants

1. Understanding the eBook Bioactive Compounds From Plants
 - The Rise of Digital Reading Bioactive Compounds From Plants
 - Advantages of eBooks Over Traditional Books
2. Identifying Bioactive Compounds From Plants
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bioactive Compounds From Plants
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bioactive Compounds From Plants
 - Personalized Recommendations
 - Bioactive Compounds From Plants User Reviews and Ratings
 - Bioactive Compounds From Plants and Bestseller Lists

5. Accessing Bioactive Compounds From Plants Free and Paid eBooks
 - Bioactive Compounds From Plants Public Domain eBooks
 - Bioactive Compounds From Plants eBook Subscription Services
 - Bioactive Compounds From Plants Budget-Friendly Options
6. Navigating Bioactive Compounds From Plants eBook Formats
 - ePub, PDF, MOBI, and More
 - Bioactive Compounds From Plants Compatibility with Devices
 - Bioactive Compounds From Plants Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bioactive Compounds From Plants
 - Highlighting and Note-Taking Bioactive Compounds From Plants
 - Interactive Elements Bioactive Compounds From Plants
8. Staying Engaged with Bioactive Compounds From Plants
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bioactive Compounds From Plants
9. Balancing eBooks and Physical Books Bioactive Compounds From Plants
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bioactive Compounds From Plants
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Bioactive Compounds From Plants
 - Setting Reading Goals Bioactive Compounds From Plants
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Bioactive Compounds From Plants
 - Fact-Checking eBook Content of Bioactive Compounds From Plants
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Bioactive Compounds From Plants Introduction

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