

Antioxidants



Antioxidants help provide us with protection from the damaging effects of free radicals.

Plants As A Source Of Natural Antioxidants

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Plants as a Source of Natural Antioxidants Nawal Kishore Dubey, 2014-12-18 A comprehensive overview of both traditional and current knowledge on the health effects of plant based antioxidants this book reviews medicinal and aromatic plants from around the world It covers the different sources of antioxidants including essential oils algae and marine microorganisms as well as the role of abiotic and biotic stresses endophytes transgenic approaches in scavenging ROS and antioxidant plants used in different therapeutic systems *Natural Antioxidants* Rituparna Banerjee, Arun K.

Verma, Mohammed Wasim Siddiqui, 2017-06-26 In the recent years considerable research has been carried out evaluating natural substances as antioxidative additives in food products leading to novel combinations of antioxidants and the development of novel food products In addition to their antioxidative capacity these natural additives have positive effects on the human body with documented health benefits This valuable new book provides an overview of natural antioxidants their sources methods of extraction regulatory aspects and application techniques specifically focusing on different foods of animal origin to improve their oxidative stability **Herbs, Spices and Medicinal Plants** Mohammad B. Hossain, Nigel P.

Brunton, Dilip K. Rai, 2020-08-17 The latest research on the health benefits and optimal processing technologies of herbs and spices This book provides a comprehensive overview of the health benefits analytical techniques used and effects of processing upon the physicochemical properties of herbs and spices Presented in three parts it opens with a section on the technological and health benefits of herbs and spices The second part reviews the effect of classical and novel processing techniques on the properties of herbs spices The third section examines extraction techniques and analytical methodologies used for herbs and spices Filled with contributions from experts in academia and industry *Herbs Spices and Medicinal Plants Processing Health Benefits and Safety* offers chapters covering thermal and non thermal processing of herbs and spices recent developments in high quality drying of herbs and spices conventional and novel techniques for extracting bioactive compounds from herbs and spices and approaches to analytical techniques It also examines purification and isolation techniques for enriching bioactive phytochemicals medicinal properties of herbs and spices synergy in whole plant medicine potential applications of polyphenols from herbs and spices in dairy products biotic and abiotic safety concerns and adverse human health effects and regulation of metal contaminants in terrestrial plant derived food and phytopharmaceuticals Covers the emerging health benefits of herbs and spices including their use as anti diabetics anti inflammatories and anti oxidants Reviews the effect of classical and novel processing techniques on the properties of herbs and spices Features informed perspectives from noted academics and professionals in the industry Part of Wiley's new IFST Advances in Food Science series *Herbs Spices and Medicinal Plants* is an important book for companies research institutions and universities active in the areas of food processing and the agri food environment It will appeal to food scientists and engineers environmentalists and food regulatory agencies *Medicinal Plants and Foods* Gema Nieto, 2020-11-20 Medicinal plants or medicinal herbs

have been identified and used since ancient times to improve the sensory characteristics of food. The main compounds found in plants correspond to four major biochemical classes: Polyphenols, terpenes, glycosides, and alkaloids. Plants synthesize these compounds for a variety of purposes including protection of the plant against fungi and bacteria, defense against insects, and attraction of pollinators and dispersal agents to favor the dispersion of seeds and pollens. Handbook of Food Preservation

M. Shafiur Rahman, 2007-07-16 The processing of food is no longer simple or straightforward but is now a highly interdisciplinary science. A number of new techniques have developed to extend shelf life, minimize risk, protect the environment, and improve functional, sensory, and nutritional properties. The ever-increasing number of food products and preservation techniques create a need for a comprehensive reference work. *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 byproducts. The chapters look at the extraction technologies, analytical techniques, and potential health prospects specifically from fruits and vegetables sources. They cover plants such as 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. *Advanced Pharmacological Uses of Medicinal Plants and Natural Products* Singh, Ajeet, Singh, Padam, Bithel, Navneet, 2020-02-21 A vast majority of the world's population lacks access to essential medicines, and the provision of safe healthcare services. Medicinal plants and herbal medicines can be applied for pharmacognosy or the discovery of new drugs or as an aid for plant physiology studies. In recent years, there has been increased interest in the search for new chemical entities, and the expression of resistance of many drugs available in the market has led to a shift in paradigm towards medicinal research. Herbal treatments, the most popular form of folk medicine, may become an important way of increasing access to healthcare services. *Advanced Pharmacological Uses of Medicinal Plants and Natural Products* provides emerging research exploring the theoretical and practical aspects of drug discovery from natural sources that allow for the effective treatment of human health problems without any side effects, toxicity, or drug resistance. Featuring coverage on a broad range of topics such as ethnobotany, therapeutic applications, and bioactive compounds, this book is ideally designed for pharmacologists, scientists, ethnobotanists, botanists, health researchers, professors, industry professionals, and health students in fields that include pharmaceutical drug development and discovery.

Food Antioxidants D.L. Madhavi, S.S. Deshpande, D.K. Salunkhe, 1995-10-24 Offers comprehensive coverage of the latest toxicological, technological, and nutritional developments in both natural and synthetic antioxidants used in the food industry.

Explores the sources of antioxidants antioxidant classification synergism degradation in food systems and techniques for identification *Phytochemistry* Chukwuebuka Egbuna, Shashank Kumar, Jonathan Chinenye Ifemeje, Jaya Vikas Kurhekar, 2018-12-12 As volume 2 of this three volume set on phytochemistry this book features chapters that comprehensively review a selection of important recent advances in ethnopharmacology and alternative and complementary medicines It also presents many informative chapters on the medicinal potential of phytochemicals in the treatment and management of various diseases such as cancer diabetes diabetic nephropathy autoimmune diseases neurological disorders male infertility and more

Natural Antioxidants Fereidoon Shahidi, 1997 This book provides state of the art discussion of natural antioxidants from dietary sources their occurrence health effects chemistry and methodologies The book summarizes data on the occurrence of antioxidative compounds in cereals and legumes oilseeds herbs and spices vegetables teas muscle foods and other commodities The antioxidant vitamins and enzymes also are thoroughly discussed The potential beneficial effects of dietary antioxidants the chemistry of food antioxidants and methodologies to assess lipid oxidation and antioxidant activity also have been covered

Food Factors for Cancer Prevention Hajime Ohigashi, Toshihiko Osawa, Junji Terao, Shaw Watanabe, Toshikazu Yoshikawa, 2013-11-27 Chemoprevention is currently regarded as one of the most promising avenues for the control of cancer with human epidemiological and animal studies indicating that the risk of cancer may be modified by changes in diet Over 100 papers are collected in this volume the proceedings of the International Conference on Food Factors Chemistry and Cancer Prevention held in Hamamatsu Japan in December 1995 Special emphasis is placed on chemical biological and molecular properties of phytochemicals in teas fruit vegetables herbs and spices and on their potential for cancer prevention Also discussed are the cancer preventive effects of vitamins lipids carotenoids flavonoids and other components of diet The findings presented here will be invaluable to all who are interested in diet and cancer prevention and especially to biochemists pharmacologists food scientists and nutritionists

Recent Developments in Antioxidants from Natural Sources Paz Otero Fuertes, 2023-05 Plants fruits and vegetables contain antioxidants that can be used as nutraceuticals or pharmaceuticals due to their perceived ability to reduce the risk of developing certain chronic diseases This book includes thirteen chapters that discuss potential sources of new antioxidants from the fruits of South America and the flora of African countries how to improve the production of antioxidants and methods to ensure the quality of antioxidants from fresh fruits and vegetables

Australian Native Plants Yasmina Sultanbawa, Fazal Sultanbawa, 2017-12-19 Australian Native Plants Cultivation and Uses in the Health and Food Industries provides a comprehensive overview of native food crops commercially grown in Australia that possess nutritional and health properties largely unknown on a global basis These native foods have been consumed traditionally have a unique flavor diversity offer significant health promoting effects and contain useful functional properties Australian native plant foods have also been identified for their promising antioxidant and antimicrobial properties that have considerable commercial potential This book

is divided into three parts The first part reviews the cultivation and production of many Australian native plants ANP including Anise Myrtle Bush Tomato Desert Raisin Davidson s Plum Desert Limes Australian Finger Lime Kakadu Plum Lemon Aspen Lemon Myrtle Muntries Native Pepper Quandong Riberry and Wattle Seed It then examines the food and health applications of ANP and discusses alternative medicines based on aboriginal traditional knowledge and culture nutritional characteristics and bioactive compounds in ANP In addition it reviews the anti obesity and anti inflammatory properties of ANP and discusses food preservation antimicrobial activity of ANP and unique flavors from Australian native plants The third section covers the commercial applications of ANP It focuses on native Australian plant extracts and cosmetic applications processing of native plant foods and ingredients quality changes during packaging and storage of Australian native herbs The final few chapters look into the importance of value chains that connect producers and consumers of native plant foods new market opportunities for Australian indigenous food plants and the safety of using native foods as ingredients in the health and food sectors

Green Sustainable Process for Chemical and Environmental Engineering and Science Inamuddin,Abdullah M. Asiri,Arun M. Isloor,2019-10-29 Green Sustainable Processes for Chemical and Environmental Engineering and Science Supercritical Carbon Dioxide as Green Solvent provides an in depth review on the area of green processes for the industry focusing on the separation purification and extraction of medicinal biological and bioactive compounds utilizing supercritical carbon dioxide as a green solvent and their applications in pharmaceuticals polymers leather paper water filtration textiles and more Chapters explore polymerization polymer composite production polymer blending particle production microcellular foaming polymer processing using supercritical carbon dioxide and a method for the production of micro and nano scale particles using supercritical carbon dioxide that focuses on the pharmaceutical industry A brief introduction and limitations to the practical use of supercritical carbon dioxide as a reaction medium are also discussed as are the applications of supercritical carbon dioxide in the semiconductor processing industry for wafer processing and its advantages and obstacles

Melatonin Sheikh Mansoor,Faheem Shahzad Baloch,Yong Suk Chung,Alejandro Romero Martínez,2024-07-31 Melatonin A Ubiquitous Pleiotropic Molecule equips researchers with an understanding of the molecular biology of melatonin in plants The book explores the occurrence of melatonin in several plant species covering key aspects including its biosynthesis physiological function in plant growth and development and signaling pathways It then discusses the benefits melatonin has for plant and agricultural development as well as how it can be utilized as a therapeutic in the treatment of human diseases The role it can play in the oxidative stress response and circadian rhythm modulation are covered as well as its nutraceutical potential for human health The book also covers the importance of melatonin in a range of fields including drug discovery and disease resistance agriculture botany and biotechnology and is an ideal reference for researchers across these disciplines Examines melatonin s pivotal role as a signaling molecule elucidating its involvement in a diverse array of biological responses within plants Covers essential aspects like melatonin biosynthesis

regulation antioxidant properties and its involvement in stress management in plants Provides an interdisciplinary study of melatonin and its potential uses including disease management crop improvement and nutraceutical development Addresses melatonin s multifaceted role in regulating key physiological processes in the human body including circadian rhythms sleep wake cycles and neurological protection Delves into melatonin s dual role as an immunomodulator influencing immune cells and a powerful antioxidant combating free radicals and alleviating oxidative stress Explores melatonin s therapeutic and anticancer potential emphasizing its importance in cardiovascular health neurology and cancer research attributed to its antioxidant and anti inflammatory characteristics

A review on phytochemical, antioxidant, and Hypoglycemic activity of traditionally important Syzygium spp Dr. Savitha Rabeque C ,2022-04-04 Plants play a vital role in the life of every living being The global inclination towards herbal medicine has advanced the expansion of plant based pharmaceutical industries to a vast extent Plants are rich in both primary as well as secondary metabolites collectively called as phytochemicals Today these phytochemicals in medicinal plants have received an immense importance due to their role in preventing diseases caused by oxidative stress which releases reactive oxygen species The genus Syzygium is one of the genera of the family Myrtaceae that is native to the tropics which plays an important medicinal role all over the world The species of the Syzygium possesses various pharmacological properties including antioxidant hypoglycaemic antimicrobial anti inflammatory anticancer and hepatoprotective activity All the pharmacological properties are due to the presence of flavonol glycosides jambolin eugenol quercetin myricetin etc This book highlights the review of ethno phyto pharmacological uses of Syzygium sps worldwide We hope that this book would be of great use to under graduates postgraduates researchers and faculty members who are studying teaching or working in the field of Life science Phytochemistry and Ethnopharmacology This book could be of immense use for the researchers working in this area I shall deeply appreciate receiving any critical comments and suggestions from the readers which would help me to improve further publications

Natural Antioxidants to Enhance the Shelf-Life of Food Mirian Pateiro,2024-08-15 Natural Antioxidants to Enhance the Shelf Life of Food Volume Two in the Developments in Food Quality and Safety series is the most up to date resource covering trending topics such as the analysis of toxic compounds and control of food poisoning food fraud traceability and authenticity revalorization of agrifood industry and natural antimicrobial compounds and their applications to improve the preservation of food non thermal processing technologies nanotechnology in food production and intelligent packaging and sensors for food applications The book focuses on recent advances and strategies to use these compounds in the preservation of food Chapters explore advances in antioxidant activity analysis electrochemical methods food oxidative stability and natural antioxidants from agro industrial by products Natural antioxidants from marine sources and innovations in antioxidants films and coatings are also covered The series is edited by Dr Jos Manuel Lorenzo and authored by a team of global experts in the fields of Food Quality and Safety providing comprehensive knowledge to food industry personals and scientists Provides

latest information on the use of natural antioxidants to enhance the food shelf life Covers a wide variety of sources and compounds that naturally exert antioxidant activity Thoroughly explains the natural compounds application in foods or their incorporation into packaging *Phenolic Compounds in Food and Their Effects on Health: Antioxidants and cancer prevention* Mou-Tuan Huang, American Chemical Society. Division of Agricultural and Food Chemistry, American Chemical Society. Meeting, 1992 Examines the sources of phenolic antioxidants Covers the chemical and biological activities of phenolic compounds in food and their health effects especially the biological properties of phenolic compounds on the modulation of tumor development in experimental animal models and possibly in humans Explores flavonoids green tea and other phenolic compounds and cancer prevention Together with Phenolic Compounds in Food and Their Effects on Health I the volumes represent the most up to date studies of the antioxidative and anticarcinogenic activities of phenolic compounds in food

Medically Important Plant Biomes: Source of Secondary Metabolites Dilfuza Egamberdieva, Antonio Tiezzi, 2019-11-17 This book provides insights into various aspects of medicinal plant associated microbes known to be a unique source of biological active compounds including their biotechnological uses and their potential in pharmaceutical agricultural and industrial applications Featuring review papers and original research by leading experts in the field it discusses medicinal plants and their interactions with the environment medicinal plants as a source of biologically active compounds medicinal plant associated microbes diversity and metabolites their pharmaceutical agricultural and industrial applications as well as their potential applications as plant growth stimulators and biocontrol agents As such the book offers a valuable up to date overview of the current research on medicinal plants their ecology biochemistry and associated biomes

Melissopalynology Mushtaq Ahmad, Nabila, Shah Fahad, Andrea Pieroni, Muhammad Zafar, Shazia Sultana, Salman Majeed, 2024-11-06 Melissopalynology Bee Flora Pollen and Honey presents a comprehensive guide to the floral biology of honeybee plants Critical for developing optimal management techniques for honey bee habitats as well as for the growth and sustainability of the honey economy this information is key to addressing the problem of predicting resource availability In addition it enables successful apiarist planning for effective hive placements and capacity and provides crucial baseline data to direct habitat and biodiversity management The book is globally relevant presenting updates on the characteristics composition health properties contamination authenticity and adulteration of honey at the worldwide level regardless of region The 100 bee flora and pollen field notes and photographic atlas sections examine species found in multiple regions throughout the world Honey has become a highly demanded product for consumers worldwide due to its taste and rich nutritional and medicinal value However it remains challenging to identify honey's origin as well as determine its authenticity This book summarizes the research and practices carried out in the last decade toward discriminating honey by using characteristic markers Contains photographic representations of bee flora and pollen Provides a comprehensive bee flora pollen inventory for the correct identification of species Includes botanical source information and guides in the quality

production of honey

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