

# FERULIC

Antioxidant Properties, Uses and Potential Health Benefits

> Biochemistry Research Trends



# <u>Ferulic Acid Antioxidant Properties Uses And Potential</u> <u>Health Benefits</u>

José M. Alvarez-Suarez

#### Ferulic Acid Antioxidant Properties Uses And Potential Health Benefits:

Ferulic Acid Bryce Warren, 2015 Ferulic acid FA is a ubiquitous phenolic compound widely found in plant tissues mainly as a component of the primary cell walls This abundant dietary antioxidant constitutes a bioactive ingredient of many foods that may offer beneficial effects against cancer diabetes and neurodegenerative diseases among others This book discusses the antioxidant properties of FA and aims to cover the main aspects related to its use in the food health and cosmetics industries as well as to present important advances in its bioconversion into commercially valuable molecules Acid Bryce Warren, 2014-01-01 Ferulic acid FA is a ubiquitous phenolic compound widely found in plant tissues mainly as a component of the primary cell walls This abundant dietary antioxidant constitutes a bioactive ingredient of many foods that may offer beneficial effects against cancer diabetes and neurodegenerative diseases among others. This book discusses the antioxidant properties of FA and aims to cover the main aspects related to its use in the food health and cosmetics industries as well as to present important advances in its bioconversion into commercially valuable molecules Handbook of Research on Advancements in Cancer Therapeutics Kumar, Sumit, Rizvi, Moshahid Alam, Verma, Saurabh, 2020-11-27 The complexity of cancer demands an integrated approach from both a cancer biology standpoint and a pharmaceutical basis to understand the different anticancer modalities Current research has been focused on conventional and newer anticancer modalities recent discoveries in cancer research and also the advancements in cancer treatment. There is a current need for more research on the advances in cancer therapeutics that bridge the gap between basic research pharmaceutical drug development processes regulatory issues and translational experimentation and clinical application Recent promising discoveries such as immunotherapies promising therapies undergoing clinical trials synthetic lethality carbon beam radiation and other exciting targeted therapies are being studied to improve and advance the studies of modern cancer treatment The Handbook of Research on Advancements in Cancer Therapeutics serves as a comprehensive guide in modern cancer treatment by combining and merging the knowledge from both cancer biology and the pharmacology of anticancer modalities The chapters come from multi disciplinary backgrounds including scientists and clinicians from both academia and various industries to discuss nascent personalized therapies and big data driven cancer treatment While highlighting topic areas that include cancer prevention cancer therapeutics and cancer treatments through the lenses of technology medicine drugs and alternate therapies this book is ideally intended for oncologists radiation oncologists surgical oncologists and cancer biologists along with practitioners stakeholders researchers academicians and students who are interested in understanding the most fundamental aspects of cancer and the available therapeutic opportunities Multiple Biological Activities of <u>Unconventional Seed Oils</u> Abdalbasit Adam Mariod, 2022-01-26 Multiple Biological Activities of Unconventional Seed Oils brings detailed knowledge concerning the biological properties of oils antioxidant antimicrobial antidiabetic antitumor anti inflammatory etc the content of individual substances with health promoting properties methods for biological properties

assay the influence of raw material quality and technological processes on the quality of oils and possible raw materials and oil contaminants with adverse health effects The book s chapters also highlight the unique properties of new oils along with their biological activities Less than a decade ago the vegetable oils on grocery store shelves were derived from conventional oil seeds e g cotton groundnut sesame corn sunflower and soybean However as consumers began to understand how fat intake affects overall health researchers plant growers and food manufacturers started to produce oils from unconventional sources This book highlights what we ve learned in the process Explores unconventional oils their different sources and where they grow worldwide Explains the medicinal uses of unconventional oils Details the biological activities antioxidant and physico chemical composition of unconventional oils Phenolic Antioxidants and Health Benefits U.D. Chavan, 2018-02-01 This book is mainly based on the latest research results and applications of phenolic and polyphenolic compounds Phenolic compounds ubiquitous in plants are an essential part of the human diet and are of considerable interest due to their antioxidant properties and potential beneficial health effects. These compounds range structurally from a simple phenolic molecule to complex high molecular weight polymers There is increasing evidence that consumption of a variety of phenolic compounds present in foods may lower the risk of health disorders because of their antioxidant activity When added to foods antioxidants control rancidity development retard the formation of toxic oxidation products maintain nutritional quality and extend the shelf life of products Due to safety concerns and limitation on the use of synthetic antioxidants natural antioxidants obtained from edible materials edible by products and residual sources have been of increasing interest This contribution summarizes both the synthetic and natural phenolic antioxidants emphasizing their mode of action health effects degradation products and toxicology In addition sources of phenolic antioxidants are discussed in detail Essentials of Medicinal and Aromatic Crops Muhammad Zia-Ul-Hag, Arwa Abdulkreem AL-Hugail, Muhammad Riaz, Umar Faroog Gohar, 2023-10-09 Medicinal and aromatic crops MACs are high value crops since the natural products obtained from them are low volume high value commodities that have numerous applications in various sectors such as the food beverage food supplement flavor and fragrance perfumery and cosmetics pharmaceutical and aromatherapy industries In addition the plant biomass is used in the production of teas and medical applications in traditional and also modern medicines MACs are important mainly because they contain plant secondary metabolites such as essential oils alkaloids glygosides saponins tannins vitamins and other bioactives Plant secondary metabolites are differentiated from plant primary metabolites of photosynthesis and respiration since they are directly involved in growth and development of plants Some MACs are used as spices and culinary herbs since they contain mainly essential oils and are used as tonic to the digestive system appetite modification and other systems and may facilitate nutrient uptake and utilization from various foods A significant amount of MACs and their natural products have also demonstrated antimicrobial antifungal and bactericidal activity and significant antioxidant capacity In the past MACs and their natural products have been used as a source for various medicines in food

and beverage production and in aroma products Essentials of Medicinal and Aromatic Crops summarizes the current knowledge on medicinal and aromatic crops including the agronomical practices of important MACs and their products their beneficial effects and utilization of MAP and their products The chapters provide a comprehensive guide to the most important and used medicinal and aromatic crops and their use in functional foods nutraceuticals and as bioactives against various ailments providing researchers teachers chemists food scientists agronomists and agroecologists in academia industry and government a fully up to date singular source on this important topic **Indian Herbal Medicines** Ramesh Kumar Sharma, Maria Micali, Bhupendra Kumar Rana, Alessandra Pellerito, Rajeev K. Singla, 2021-08-12 This book discusses the scope and limitations of the antimicrobial and antioxidant properties of foods as medicines or medicinal coadjuvants in traditional Indian herbal therapies The first chapter introduces readers to the relevance of the Ayurveda system its holistic classification approach applications of selected herbs and the demonstrable efficacy of herbal extracts in terms of antimicrobial susceptibility In turn the second chapter discusses the antimicrobial properties and kinetic mechanisms of inhibition ascribed to selected vegetable extracts The third chapter addresses the antioxidant power of phenolic compounds from vegetable products and herbal extracts The book closes with a review of natural antioxidant agents role in the treatment of metabolic disorders Written from an Indian perspective this book unravels the chemistry of the traditional Indian diet and its impact on health Further it can serve as a reference for other traditional products with similar health Sustainable Recovery and Reutilization of Cereal Processing By-Products Charis M. Galanakis, 2018-02-03 claims Sustainable Recovery and Reutilization of Cereal Processing By Products addresses topics associated with the sustainable management of cereal manufacturing Emphasis is placed on current advisable practices general valorization techniques of cereal processing by products and the functional properties of healthy cereal by product components that lead to target applications in foods and nutraceuticals Focus includes discussions on wheat bran distillers dried grains based within the biorefinery concept and different techniques for the separation extraction recovery and formulation of valuable compounds including proteins arabinoxylans and beta glucan Addresses topics associated with the sustainable management of cereal manufacturing Places emphasis on current advisable practices Presents general valorization techniques of cereal processing by products Highlights the functional properties of healthy cereal by product components that lead to target applications in foods and nutraceuticals Nutritional Composition and Antioxidant Properties of Fruits and Vegetables Amit K. Jaiswal, 2020-07-29 Nutritional Composition and Antioxidant Properties of Fruits and Vegetables provides an overview of the nutritional and anti nutritional composition antioxidant potential and health benefits of a wide range of commonly consumed fruits and vegetables The book presents a comprehensive overview on a variety of topics including inflorescence flowers and flower buds broccoli cauliflower cabbage bulb stem and stalk onion celery asparagus celery leaves watercress lettuce spinach fruit and seed peppers squash tomato eggplant green beans roots and tubers red beet carrots radish and fruits such

as citrus orange lemon grapefruit berries blackberry strawberry lingonberry bayberry blueberry melons pumpkin watermelon and more Each chapter contributed by an international expert in the field also discusses the factors influencing antioxidant content such as genotype environmental variation and agronomic conditions **Bee Products - Chemical and** Biological Properties José M. Alvarez-Suarez, 2025-05-21 This fully updated and extended second edition provides a comprehensive overview of the most important products by Apis mellifera bees The book provides an easy to read introduction to honey classification sensory and pollen analysis and a complete compendium of the chemical composition of the main bee products honey propolis royal jelly pollen and bee venom In addition this new edition includes two brand new sections on bee bread and wax The beneficial medicinal and nutritional aspects of these products in aging and age related diseases cancer neurodegenerative diseases and infections are discussed in detail and the methods used to analyse and characterise the individual bioactive compounds are reviewed The book is a must for researchers in the field of biochemistry of natural products students and professional beekeepers interested in the chemical diversity of compounds derived from bee Improving Health and Nutrition through Bioactive Compounds Maira Rubi Segura Campos, 2024-11-22 products Improving Health and Nutrition through Bioactive Compounds Benefits and Applications presents bioactive compounds and functional foods as a therapeutic approach to disease and overall health and well being It covers various bioactive compounds including peptides phenols and flavonoids as foods to consider for complementary treatment in disease management Written for nutrition researchers food scientists graduate students and other food science and health professionals this book is a welcomed reference for those who wish to better understand the role of bioactive compounds and functional foods in the treatment and prevention of disease Highlights dietary alternatives to health management and disease treatment and prevention Covers bioactive constituents of foods phytochemicals and the effect of digestion or processing on food components Considers the link between food composition and processing on the nutritional and functional quality of foods along with the role of diet in enhancing consumer health Opuntia spp.: Chemistry, Bioactivity and Industrial Applications Mohamed Fawzy Ramadan, Tamer E. Moussa Ayoub, Sascha Rohn, 2021-09-27 The Opuntia fruits commonly known as cactus pears or prickly pears have been suggested by the Food and Agriculture Organization to be a promising and strategic crop in regions suffering from lack of water In Mexico India South Africa and the Mediterranean the Opuntia fruits have become popular due to their nutritive value and health promoting benefits including antioxidant antiulcerogenic and antiatherogenic traits and protective effects against LDL oxidation Additionally readily absorbable sugars high vitamin C and mineral content and a pleasant flavour make Opuntia tailor made for novel foods Due to their ecological advantages high functional value and health related traits Opuntia fruits can be highly exploited in different food processing applications For instance Opuntia cactus fruits are used for the preparation of juices and marmalades Opuntia cactus plants are used to feed animals in African and Latin American countries Peruvian farmers cultivate Opuntia cactus for growing the cochineal

Dactylopius coccus insect and producing the natural dye carmine and the commercial production of food and non food products from Opuntia has been established in Mexico USA and several Mediterranean countries Opuntia spp Chemistry Bioactivity and Industrial Applications creates a multidisciplinary forum of discussion on Opuntia cactus with special emphasis on its horticulture post harvest marketability chemistry functionality health promoting properties technology and processing The text includes detailed discussion of the impact of traditional and innovative processing on the recovery of high added value compounds from Opuntia spp by products Later chapters explore the potential applications of Opuntia spp in food cosmetics and pharmaceutical products Preventing and Treating Liver Diseases: Medicinal and Food Plants, their metabolites as potential options Qinge Ma, Rongrui Wei, Zhipei Sang, Chunsu Yuan, Chunlei Zhang, 2025-03-28 Liver diseases are seriously endangering human health in the world In recent years the incidence rate of liver disease is increasing year by year and the age of patients tends to be younger Therefore it is urgent to find safe and effective drugs to treat liver diseases The drugs used to treat liver diseases in clinic are mainly liver protecting chemical drugs some chemical synthetic drugs have serious problems such as high toxicity high recurrence rate and high cost However medicinal and food plants have unique advantages in terms of safety and compliance which have always been an important source for finding new hepatoprotective drugs Importantly new hepatoprotective natural products discovered from medicinal and food plants have the advantages of multi pathways multi targets and safety which are focused on by medical researchers Therefore discovering safe and effective new hepatoprotective drugs from medicinal and food plants used anywhere in the world is a new research direction with important research value This research topic aims to address the following issues To discover hepatoprotective natural products from medicinal and food plants that can be used to treat liver diseases for people This will involve the development of protocols and approaches using modern technologies efficient systems and novel materials to achieve hepatoprotective drug discovery from medicinal and food plants Honey in Food Science and Physiology Rajesh Kumar, Younis Ahmad Hajam, Sanju Bala Dhull, Arup Giri, 2024-07-18 This book highlights the science underlying honey which is central to an understanding of conventional medicine or ingredients of food used mostly in all societies and it is attracting increasing interest among food scientists and professionals worldwide Honey wax propolis and royal jelly also have significant roles in various nutraceutical and pharmaceutical products and this book provides collective information and practical approaches regarding all characteristic features of honey and its applications as functional food and medicines Not only does this book explain the comprehensive knowledge of honey and its medicinal properties based on current researched evidence it also explores the contribution of honey in the food science and medicine industry as a significant part of nutraceuticals and functional food research Written by leading scientists in the field the book will be a valuable resource for students and researchers in the fields of food chemistry nutritional science taste physiology and neuroscience as well as for professionals in the food industry **Health Benefits of Fermented Foods and Beverages** Jyoti Prakash

Tamang, 2015-04-07 Health Benefits of Fermented Foods and Beverages discusses the functionality and myriad health benefits of fermented foods and beverages of the world It examines health promoting and therapeutic properties covering the molecular process of fermentation and the resulting benefit to nutritional value and long term health Exploring a range of Health Benefits of Honey and Propolis - Scientific Evidence and Medicinal Uses ,2025-05-28 Health Benefits of Honey and Propolis Scientific Evidence and Medicinal Uses comprehensively explores the richness and potential of honey and propolis The book covers honey s microbial diversity and antimicrobial activity its effects on burn treatment the ecological and botanical aspects related to the safe production of medicinal honey and the benefits of Brazilian honey with geographical indication highlighting its unique floral origin Additionally it discusses the therapeutic properties of honey propolis and other bee products for promoting human health This work provides an essential source of knowledge written by experts supporting scientific investigations in depth discussions and the advancement of research on using these valuable natural products Coconut-Based Nutrition and Nutraceutical Perspectives S.V. Ramesh, Shelly Praveen, 2024-08-01 This book presents the latest information on the biomolecules derived from the coconut and their prominent roles in human well being The various parts of the coconut fruit kernel nut water floral sap etc are packed with a wide range of nutrients namely health promoting lauric acid and wellness providing phenolics flavonoids and antioxidant rich molecules Incisive perspectives on various primary and secondary products of the coconut namely coconut kernel milk coconut water coconut oil and virgin coconut oil coconut inflorescence sap neera coconut blossom sugar and its diverse food products form the core of this collection. The potential of the coconut as a powerhouse of the repertoire of nutraceutical products and its implications for human nutrition are also discussed Finally a chapter discusses the global trade potential of coconut and coconut products in the wake of their ever increasing global demand The authors are experts who have contributed to the field of nutritional profiling of coconut This volume will serve as a reference for researchers in the fields of plant and human nutrition interface palm based food products and students who wish to learn about palm nutrition and its impact on human well being The Nutritional Value of Millets in Future Eras Dr Anamika Chauhan, Dr Ali Imran, Mr Fakhar Islam, 2024-11-13 Embark on a journey into the future of nutrition with this edited book The book explores the remarkable potential of millets as the cornerstone of tomorrow s diet and agricultural landscape From their humble origins as coarse grains to their current status as sought after nutri cereals millets have undergone a transformative journey Discover their role as functional foods and therapeutic agents offering a plethora of health benefits that transcend generations Explore the innovative utilization of millets in technology and bio fortification efforts ensuring nutritional security for future generations Learn how millets are revolutionizing infant nutrition combating malnutrition and promoting overall well being Whether you re a health enthusiast nutritionist farmer or simply intrigued by the future of food this book offers invaluable insights into the potential of these ancient grains to shape a healthier more sustainable future for us all Dried Fruits Fereidoon Shahidi, 2012-12-18 Dried

fruits serve as important healthful snack items around the world They provide a concentrated form of fresh fruits prepared by different drying techniques With their unique combination of taste aroma essential nutrients fibre and phytochemicals or bioactive compounds dried fruits are convenient for healthy eating and can bridge the gap between recommended intake of fruits and actual consumption Dried fruits are nutritionally equivalent to fresh fruits in smaller serving sizes in the current dietary recommendations of various countries Scientific evidence suggests that individuals who regularly consume generous amounts of dried fruits have lower rates of cardiovascular disease obesity various types of cancer type 2 diabetes and other chronic diseases Dried fruits also have the advantage of being easy to store and distribute available around the year readily incorporated into other foods and recipes and present a healthy alternative to salty or sugary snacks Dried Fruits Phytochemicals and Health Effects is divided into three sections preceded by introductory chapters that provide an overview of dried fruits their composition phytochemicals and health applications as well as the cancer chemopreventive effects of selected dried fruits amla fruits or Indian gooseberries avocados berries mangoes mangosteens persimmons prunes raisins kiwi fruits and other dried fruits The first section covers the most popular dried berries blackberries blackcurrants blueberries cranberries goji berries mulberries raspberries and strawberries the second section discusses non tropical dried fruits apples apricots cherries citrus fruits figs nectarines peaches pears prunes and raisins and the final section addresses tropical dried fruits a ai fruits bananas dates guavas papayas mangoes passion fruits and pineapples Contributors to this volume are internationally renowned researchers who have provided a comprehensive account of the global perspectives of the issues relating to phytochemicals and health effects of dried fruits The book will serve as a resource for those interested in the potential application of new developments in dried fruits nutraceuticals and functional foods Biochemists chemists food scientists technologists nutritionists and health professionals from academia government laboratories and industry will benefit from this publication Although this book is intended primarily as a reference book it also summarises the current state of knowledge in key research areas and contains ideas for future work In addition it provides easy to read text suitable Bioactive Compounds Iyoti Devi, 2025-02-25 This book provides an overview of the state of our understanding regarding the biosynthesis of bioactive compounds from plant and microbial sources Additionally examples of how these compounds have been used in food agriculture and human health are provided as well as the biotechnological approach for screening and characterizing bioactive compounds In the pharmaceuticals nutraceuticals and agrochemicals industries bioactive molecules are crucial to the production of high value products The discovery of bioactive chemicals from diverse sources has supported their use as medications functional food ingredients herbicides and insecticides due to their medicinal advantages nutritional importance and protective impacts in healthcare and agriculture The systematic investigation of biologically active products and the prospective biological activities of these bioactive compounds comprising their medical uses

standardization quality control mode of action and possible biomolecular interactions are among the greatest sensational expansions in modern natural medication and healthcare This book is a useful resource for graduate and undergraduate biomedical chemistry and agriculture students who are interested in learning more about the possibilities of bioactive natural products This book is useful to researchers in a variety of scientific domains where natural products are important

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