



Nutraceutical Science
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Handbook of Functional Beverages and Human Health

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Handbook Of Functional Beverages And Human Health

Robert E.C. Wildman, Richard S. Bruno



Handbook Of Functional Beverages And Human Health:

Handbook of Functional Beverages and Human Health Fereidoon Shahidi, Cesarettin Alasalvar, 2016-04-06 Handbook of Functional Beverages and Human Health provides potential applications and new developments in functional beverages nutraceuticals and health foods In addition to serving as a reference manual it summarizes the current state of knowledge in key research areas and contains novel ideas for future research and development Additionally Handbook of Functional Beverages and Human Health Fereidoon Shahidi, Cesarettin Alasalvar, 2016-04-06 Handbook of Functional Beverages and Human Health provides potential applications and new developments in functional beverages nutraceuticals and health foods In addition to serving as a reference manual it summarizes the current state of knowledge in key research areas and contains novel ideas for future research and development Additionally **Milk-Based Beverages** Alexandru Grumezescu, Alina Maria Holban, 2019-05-11 Milk Based Beverages Volume 9 in The Science of Beverages series presents current status developments and technologies for researchers and developers to meet consumer demand and understand consumer trends toward healthy drinks This resource takes a multidisciplinary approach to address issues in safety and quality control while also discussing the nutritional and functional information that professionals in the beverage industry need The book presents a framework for researchers product developers engineers and regulators in the beverages industry for understanding new research developments in milk based products to meet industry needs in producing competitive products Covers the most recent advances in various milk based products Includes a solid review of safety and hygiene for the development of new products Presents engineering techniques and applications using novel technologies **Functional and Medicinal Beverages** Alexandru Grumezescu, Alina Maria Holban, 2019-06-06 Functional and Medicinal Beverages Volume Eleven in the Science of Beverages series discusses one of the fastest growing sectors in the food industry As the need for research and development increases based on consumer demand the information in this volume is essential This reference includes the latest research trends nutritive and medicinal ingredients and analytical techniques to identify health beneficial elements The contents of the book will bring readers up to date on the field thus making it useful for researchers and graduate students in various fields across the food sciences and technology Highlights new concepts innovative technologies and current concerns in the functional beverages field Covers detailed information on the engineering and processing of novel ingredients for health benefits Includes common and alternative ingredients for juices vegetable blends milk based drinks and probiotic and prebiotic based alternative beverages Natural Beverages Alexandru Grumezescu, Alina Maria Holban, 2019-06-21 Natural Beverages Volume Thirteen in the Science of Beverages series takes a multidisciplinary approach to address the shifting beverage landscape towards the global trend of natural beverages As global beverage consumption has progressed towards healthier and natural ingredients researchers and scientists need to understand the latest scientific developments and the proposed health benefits and improved effects Classical examples are presented as a basis for

innovation expansion to help new researchers understand this segment of the industry This is a great resource for researchers and scientists in the beverages industry Describes natural beverage production and its impact on nutritional value Provides overall coverage of hot topics and scientific principles in the beverage industry Explores the pros and cons of natural vs artificial beverages in product development Covers the production of all commonly consumed natural beverages

Value-Added Ingredients and Enrichments of Beverages Alexandru Grumezescu, Alina Maria Holban, 2019-06-22

Value Added Ingredients and Enrichment of Beverages Volume Fourteen in The Science of Beverages series takes a multidisciplinary approach in addressing what consumers demand in natural beverages This in depth reference covers both natural and unnatural ingredients and explains their impact on consumer health and nutrition Sweeteners vitamins oils and other natural ingredients to improve beverages are included The book addresses some of the most common enrichments used in the industry including those with biomedical and nutritional applications This volume will be useful to anyone in the beverages industry who needs a better understanding of advances in the industry Discusses health related benefits and risks along with the potential harmful effects of additives and preservatives Provides research examples of health promoting ingredients in beverages to further research and development Presents key steps in designing formulations of enriched beverages analysis product development shelf life cost benefit ratio and compliance with WHO regulations

Nutrients in Beverages Alexandru Grumezescu, Alina Maria Holban, 2019-06-07 Nutrients in Beverages Volume Twelve in the Science of Beverages series introduces the role of nutrients in beverages and provides details into the biological effects of beverage ingredients by presenting their nutritional properties and characterization This scientific reference covers both the current state of the art and future trends in the beverage industry and is designed as a comprehensive guide to this area of research Detailed research information is presented to not only help researchers and students understand the nature of the challenges associated with incorporating nutrients but to also help strengthen the knowledge transfer between research institutions and industry Includes information on the health impact of various nutrients Discusses nutrients in beverages as a potential delivery system for nutraceuticals Presents research example detection techniques to assist in identifying nutrient types and functionalities

Handbook of Nutraceuticals and Functional Foods Robert E.C. Wildman, Richard S. Bruno, 2019-11-19 The field of functional foods along with their bioactive food components has grown tremendously over the past decades Often guided by hypothesis generating epidemiological observations discoveries from basic science studies and controlled trials in humans have provided critical evidence to help establish an optimal diet that alleviates chronic disease risk These advances have also driven efforts by the food and nutraceutical industries to establish and market health claims formulate extra value foods and even generate new health foods for human benefit Handbook of Nutraceuticals and Functional Foods Third Edition compiles the data from experts in the field that potentiates the already established credibility of the earlier editions In its three section format it provides an authoritative summary of the prophylactic and or medicinal benefits of natural foods and

their constituents that are linked to favorable health outcomes Beginning with an overview of the field and associated regulations each chapter describes the chemical properties bioactivities dietary sources and evidence of these health promoting dietary constituents Features Summarizes plant and animal based functional foods and their bioactive components New chapters on cannabidiol and scientific legal and regulatory considerations green tea and nutraceutical applications and herbal nutraceuticals and insulin resistance Includes information on functional food beverages including coffee green tea and dairy milk Discusses antioxidant and anti inflammatory activities of vitamin E anthocyanins and other poly phenolic compounds and carotenoids Provides an update on the health benefits and requirements of protein and performance and therapeutic application and safety of creatine

Case Studies on the Business of Nutraceuticals, Functional and Super Foods Cristina Santini,Stefania Supino,Lucia Irene Bailetti,2022-09-14 A volume in the Consumer Science and Strategic Marketing Series Case Studies on the Business of Nutraceuticals considers nutraceuticals from a strategic marketing perspective exploring consumer needs and trends as a pathway to defining novel opportunities in developing and marketing these products In addition to highlighting the importance of consumer needs in shaping a market strategy for nutraceuticals this book also defines emerging trends and explores recent developments in the nutraceutical industry Containing 11 chapters this book explores the competitive landscape of the global and European nutraceutical market focusing on key market drivers consumer and product trends and marketing and technological challenges Case Studies on the Business of Nutraceuticals outlines the processes that lead to the introduction of new products and the entrance of new competitors in the market and highlights how a market strategy that s focused on consumers needs can contribute to a company s strategy The case studies and examples contained in this book demonstrate how companies can employ consumer science strategies to revise existing or develop new products and are sure to be a welcomed resource by new product developers policy makers food scientists academicians and students studying related fields Explores the importance of understanding consumers when defining a market strategy Highlights the importance of adopting a sustainable orientation in the nutraceutical industry Addresses the competitive dynamics that are currently affecting the nutraceutical industry

Production and Management of Beverages Alexandru Grumezescu,Alina Maria Holban,2018-12-07 Production and Management of Beverages Volume One in the Science of Beverages series introduces the broad world of beverage science providing an overview of the emerging trends in the industry and the potential solutions to challenges such as sustainability and waste Fundamental information on production and processing technologies safety quality control and nutrition are covered for a wide range of beverage types including both alcoholic and nonalcoholic beverages fermented beverages cocoa and other powder based beverages and more This is an essential resource for food scientists technologists chemists engineers microbiologists and students entering into this field Describes different approaches to waste management and eco innovative solutions for the wine and beer industry Offers information on ingredient traceability to ensure food safety and

quality Provides overall coverage of hot topics and scientific principles in the production and management of beverages for sustainable industry **Biotechnological Progress and Beverage Consumption** Alexandru Grumezescu,Alina Maria Holban,2019-09-17 Biotechnological Progress and Beverage Consumption Volume 19 in the Science of Beverages series presents a scientific resource that discusses current and emerging advancements in technologies and novel applications to help researchers understand and apply the latest techniques to improve beverages This reliable reference explores how beverages have been improved through biotechnology and provides technical information to improve professional development in a competitive market Topics include a broad range of trends where some of the most advancements have been made including improvements in bioactive concentration probiotics green technologies in fermentation and in clarification processes Provides technical aspects of bioprocesses for a deeper understanding of product creation Presents modeling and simulation examples for quality control and safety of fermented beverages Includes research methods and analysis to improve product development including texture and flavor **Fermented Beverages** Alexandru Grumezescu,Alina Maria Holban,2019-03-05 Fermented Beverages Volume Five the latest release in The Science of Beverages series examines emerging trends and applications of different fermented beverages including alcoholic and non alcoholic drinks The book discusses processing techniques and microbiological methods for each classification their potential health benefits and overall functional properties The book provides an excellent resource to broaden the reader s understanding of different fermented beverages It is ideal for research and development professionals who are working in the area of new products Presents research examples to help solve problems and optimize production Provides recent technologies used for quality analysis Includes industry formulations for different beverages to increase productivity and innovation Includes common industry formulations to foster the creation of new products **Sports and Energy Drinks** Alexandru Grumezescu,Alina Maria Holban,2019-05-14 Sports and Energy Drinks Volume 10 in The Science of Beverages series is the first single volume resource to focus on the science behind these beverages for purpose products As consumers seek ways to effectively replenish key nutrients after strenuous activity while also balancing calories and vitamin intake sports and energy drinks is one of the fastest growing markets in the industry From protein to fruit athlete to adolescent consumption this book explores the key issues and challenges in developing products that meet consumer demand in a safe and effective manner This series takes a multidisciplinary approach to help research and development professionals understand the scientific complexities of these unique beverages As demand for sports and energy drinks is growing and with a more competitive market this timely and useful resource will equip industry professionals with the tools they need to create new and innovative health promoting products Presents new findings on the health effects of sports and energy drinks Provides research analysis of existing products to promote new product innovation Includes information on trace minerals to promote safety and quality

Natural Products for the Management of Arthritic Disorders Rupesh K. Gautam,Lokesh Deb,Kamal Dua,2022-08-20

Rheumatoid arthritis RA is the most common inflammatory complication and affects approximately 1 % of the global population It affects three times more women than men RA is an autoimmune disorder elicited by exposure of genetic factors from the host to unknown antigens causing arthritogenic complaints It also includes the activation of lymphocytes as well as CD4 helper T cells along with local release of chronic inflammatory mediators and cytokines like tumor necrosis factor TNF and various cytokines like interleukins IL that enormously affect the joints The available allopathic therapies for RA are not a cure for the complications and antibody therapy and surgical procedures are expensive However in the present era researchers and healthcare professionals have moved toward natural medicines obtained from plants and other natural sources Research based on developments in phytomedicine has progressed steadily Evidence has been collected to show the massive therapeutic potential of medicinal plants used in various traditional systems against many pathological complications Researchers have focused on the therapeutic potential of natural products used for treatment and counteracting various disorders along with their complications having negligible adverse effects Natural Products for the Management of Arthritic Disorders compiles current knowledge about the bioactive compounds and herbal formulations useful in the treatment of rheumatoid arthritis 11 chapters explain the role of natural products in the management of rheumatoid arthritis Topics have been contributed by experts in medicinal chemistry and rheumatology The book first introduces the reader to rheumatoid arthritis before delving into conventional and alternative therapies for the disease The editors have also included special topics such as the biomarkers for RA cytokines and anti inflammatory mediators preclinical and clinical studies The range of topics should provide a comprehensive overview of natural remedies for arthritis and the role of natural products in anti arthritic drug development The information will be useful for many readers including medical and pharmacology students multidisciplinary research scholars scientists pharma herbal food industrialists and policy makers

Health Benefits of Nuts and Dried Fruits Cesaretti Alasalvar, Jordi Salas-Salvado, Emilio Ros, Joan Sabate, 2020-02-06 Nuts and dried fruits are part of our daily diet They are consumed whole or as ingredients of many food products such as muffins cereals chocolates energy bars breads and cookies among others Health Benefits of Nuts and Dried Fruits provides a comprehensive overview of the literature on the health benefits of nuts and dried fruits The book summarizes the current state of knowledge in key research areas and provides ideas for future scientific research and product development Nuts a term that comprises tree nuts and peanuts are highly nutritious containing health promoting macronutrients micronutrients vitamins and bioactive phytochemicals they are one of the edible foods with the highest content in antioxidants The consumption of nuts is recognized for its health promoting properties which ranges from a consistent cholesterol lowering effect in clinical trials to a robust association with reduced risk of cardiovascular disease and all cause mortality in prospective studies In spite of the high energy content of nuts there is no evidence that their frequent consumption promotes obesity and they may even help control it Dried fruits which serve as important healthful snacks worldwide are nutritionally equivalent to fresh fruits while

providing all of their bioactive components in concentrated form While the evidence level concerning the health effects of dried fruits lags behind that on nuts it suggests that individuals who consume dried fruits regularly have a lower risk of cardiovascular disease obesity and other non communicable diseases Main features of the book concerning nuts and dried fruits Provides detailed information on health effects Highlights current regulation and health claims Provides updated dietary recommendations Describes nutrient absorption and metabolism Discusses mechanisms implicated in the health effects Although this book is intended primarily as a reference by comprehensively reviewing the current state of knowledge it can guide future research on the topic Among others food scientists biochemists nutritionists health professionals decision makers and regulatory agencies can draw much benefit from its contents Hopefully it will help in public health strategies to promote healthy aging and improve population wellbeing

Sustainable Valorization of Date Palm By-products and Wastes Sajid Maqsood,Ume Roobab,Rana Muhammad Aadil,2025-07-01 Sustainable Valorization of Date Palm Byproduct and Wastes provides a comprehensive resource on the sustainable valorization of date byproducts and waste Composed of 13 chapters this book highlights the various green technologies and processing methods that can be used to extract valuable compounds from these byproducts and convert them into high value products such as biofuels animal feed and functional food ingredients Bringing together contributions from leading experts in the field of food science and technology this title provides a valuable resource for professionals and researchers in the industry as well as policymakers entrepreneurs and students Date palm is a significant crop in many regions of the world producing large quantities of byproducts and wastes that are often underutilized or wasted Includes information on the various byproducts generated from date palm processing Brings the composition and properties of date palm byproducts Explores the different green technologies and processing methods for date palm byproducts valorization Provides practical solutions for the utilization of date palm byproducts

Handbook of Plant-Based Fermented Food and Beverage Technology, Second Edition Y. H. Hui,E. Özgül Evranuz,2012-05-17 Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet especially in rural households and village communities worldwide Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened interest among scientists and food processors Handbook of Plant Based Fermented Food and Beverage Technology Second Edition is an up to date reference exploring the history microorganisms quality assurance and manufacture of fermented food products derived from plant sources The book begins by describing fermented food flavors manufacturing and biopreservation It then supplies a detailed exploration of a range of topics including Soy beverages and sauce soymilk and tofu Fruits and fruit products including wine capers apple cider and juice mangos olive fruit and noni fruits Vegetables and vegetable products including red beet juice eggplant olives pickles sauerkraut and jalape o peppers Cereals and cereal products including fermented bread sourdough bread rice noodles boza Chinese steamed buns whiskey

and beer Specialty products such as balsamic vinegar palm wine cacha a brick tea shalgam coconut milk and oil coffee and probiotic nondairy beverages Ingredients such as proteolytic bacteria enzymes and probiotics Fermented food products play a critical role in cultural identity local economy and gastronomical delight With contributions from over 60 experts from more than 20 countries the book is an essential reference distilling the most critical information on this food sector *Native Crops in Latin America* Ritva Repo-Carrasco-Valencia, Mabel Cristina Tomás, 2022-04-11 Functional foods improve health and can reduce the risk of different diseases In this sense a variety of bioactive compounds present in functional foods are able to modulate inflammatory responses or exhibit interesting bioactivities such as antihypertensive antioxidants anticancer antimicrobials anticariogenics among others There is a revalorization and mounting characterization on ancient grain crops of Latin America such as chia amaranth quinoa Andean lupin sacha inchi This area also possesses a huge variety of native fruits such as camu camu goldenberry lucuma which have health promoting compounds Native Crops in Latin America Biochemical Processing and Nutraceutical Aspects explores recent investigations related to the potential use of the native crops as sources of bioactive compounds proteins hydrolysates peptides antioxidants essential lipids dietary fiber pre and probiotics and as ingredients in functional foods Key Features Contributes to increasing knowledge of Latin American crops Contains information of various native crops and nutraceutical potentiality Discusses characterization of their by products Explores revaluation and food application for enrichment food matrices This book contains recent findings impacting research in subjects such as cardiovascular and gastrointestinal systems gut microbiota delivery systems product development and gastronomy Such information on Latin American crops may significantly influence the well being health and nutrition of consumers This will be a useful resource for food scientists food technologists nutritionists ingredient manufacturers and health care professionals and relevant knowledge for any University's Food Science department Also available in the Food Biotechnology and Engineering series Volatile Compounds Formation in Specialty Beverages edited by Felipe Richter Reis and Caroline Mongruel Eleut rio dos Santos ISBN 9780367631901 For a complete list of books in this series please visit our website at <https://www.routledge.com/Food+Biotechnology+and+Engineering/book-series/CRCFOOBIOENG> Fermented Foods, Part II Ramesh C. Ray, Didier Montet, 2017-05-25 This book reviews the use of fermentation to develop healthy and functional foods and beverages and the commercialization of fermented food products through the use of biotechnology The first two sections cover the health and functional benefits of fermented foods and the latter two sections include chapters on global and region specific fermented foods that have crossed the geographical barriers to reach supermarkets all over the world Handbook of Fermented Food and Beverage Technology Two Volume Set Y. H. Hui, E. Özgül Evranuz, 2012-05-21 Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet especially in rural households and village communities worldwide Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to

commercialization and heightened int

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