

Nutraceutical Proteins and Peptides in Health and Disease

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Nutraceutical Proteins And Peptides In Health And Disease

**Navam S. Hettiarachchy, Kenji
Sato, Maurice R. Marshall, Arvind
Kannan**



Nutraceutical Proteins And Peptides In Health And Disease:

Nutraceutical Proteins and Peptides in Health and Disease Yoshinori Mine, Fereidoon Shahidi, 2005-09-29 Reports of the beneficial health effects of some peptides have begun to make their way into the scientific literature. Peptides can act as immunomodulators and have been shown to have a positive influence on calcium absorption and on regulation of serum cholesterol. A number of peptides may also possess antimicrobial properties that enhance the body's immune response.

Bioactive Proteins and Peptides as Functional Foods and Nutraceuticals Yoshinori Mine, Eunice Li-Chan, Bo Jiang, 2011-06-09 Bioactive Proteins and Peptides as Functional Foods and Nutraceuticals highlights recent developments of nutraceutical proteins and peptides for the promotion of human health. The book considers fundamental concepts and structure-activity relations for the major classes of nutraceutical proteins and peptides. Coverage includes functional proteins and peptides from numerous sources including soy, Pacific hake, bovine muscle, peas, wheat, fermented milk, eggs, casein, fish collagen, bovine lactoferrin, and rice. The international panel of experts from industry and academia also reviews current applications and future opportunities within the nutraceutical proteins and peptides sector.

Bioactive Food Proteins and Peptides Navam S. Hettiarachchy, Kenji Sato, Maurice R. Marshall, Arvind Kannan, 2011-12-02 Many naturally occurring compounds from foods such as rice, vegetables, fruits, and animal products possess properties that help to slow disease progression, inhibit pathophysiological mechanisms, or suppress activities of pathogenic molecules. Proteins and peptides play significant roles in such activities and are gaining importance as nutraceuticals.

Food Proteins and Peptides Navam S. Hettiarachchy, Kenji Sato, Maurice R. Marshall, Arvind Kannan, 2012-03-19 A multidisciplinary resource, Food Proteins and Peptides: Chemistry, Functionality, Interactions, and Commercialization enables researchers in biochemistry, biotechnology, food science, and technology, nutrition, and medicine to understand the physicochemical and biochemical factors that govern the functionality of these food components. Following chapters on the structure and chemistry of amino acids, peptides, and proteins, the book describes modes of characterization and the functional relationships of food proteins. It examines protein solubility and insolubility and explores proteins and peptides as emulsifying and foaming agents. Specialized topics include factors affecting heat-induced casein whey protein interactions in bovine milk systems; the effects of protein-saccharide interactions on the properties of food components; ameliorative action of peptides on cholesterol and lipid metabolism; proteins and peptides with elements of sweetness, kokumi, umami, and bitterness; a new approach for the large-scale fractionation of peptides based on their amphoteric nature. The book examines the source of bioactive peptides and describes their bioavailability, including their absorption and occurrence in human blood. It also provides a database of biologically active proteins and peptides. Final chapters review current status, future industrial perspectives, and future trends of bioactive food proteins and peptides and explore the role of nanotechnology in protein research. With contributions from a panel of international scientists, this volume captures the state of the art in protein and peptide research, providing a launching pad for further inquiry and discovery.

Marine Proteins and Peptides Se-Kwon Kim, 2013-03-18 Food proteins and bioactive peptides play a vital role in the growth and development of the body's structural integrity and regulation as well as having a variety of other functional properties. Land animal derived food proteins such as collagen and gelatin carry risks of contamination such as BSE. Marine derived proteins which can provide equivalents to collagen and gelatin without the associated risks are becoming more popular among consumers because of their numerous health beneficial effects. Most marine derived bioactive peptides are currently underutilized. While fish and shellfish are perhaps the most obvious sources of such proteins and peptides, there is also the potential for further development of proteins and peptides from sources like algae, sea cucumber and molluscs. Marine derived proteins and peptides also have potential uses in novel products with the possibility of wide commercialization in the food, beverage, pharmaceutical and cosmetic industries as well as in other fields such as photography, textiles, leather, electronics, medicine and biotechnology. **Marine Proteins and Peptides: Biological Activities and Applications** presents an overview of the current status, future industrial perspectives and commercial trends of bioactive marine derived proteins and peptides. Many of the industrial perspectives are drawn from the food industry but the book also refers to the pharmaceutical and cosmetics industries. There have recently been significant advances in isolating functional ingredients from marine bio resources and seafood by products for use in these industries but little has been published creating a knowledge gap particularly with regard to the isolation and purification processes. This book is the first to fill that gap. **Marine Proteins and Peptides: Biological Activities and Applications** is a valuable resource for researchers in marine biochemistry field as well as food industry managers interested in exploring novel techniques and knowledge on alternative food protein sources. It will become a standard reference book for researchers involved in developing marine bio resources and seafood by products for novel nutraceutical, cosmetics and pharmaceutical applications. It will also appeal to managers and product developers in the food, pharmaceutical and cosmetics industries particularly those looking to use marine derived proteins and peptides as substitutes or replacements for unfashionable or outdated food components. **Dairy**

Microbiology and Biochemistry Barbaros Ozer, Gülsün Akdemir-Evrendilek, 2014-07-09 This book covers recent developments in types, classifications and genetic traits of indigenous milk microorganisms and dairy starter cultures. It also discusses biochemical reactions taking place in different dairy products and microorganisms involved in such reactions. The text provides strategies for rapid detection of pathogenic and non pathogenic microorganisms. **Bioactive Peptides** Richard Owusu-Apenten, 2010-06-23 Bioactive peptides are used to enhance the body's antioxidant status, antiseptic capacity, immune function, anti-inflammatory capacity, mineral absorption and appetite. They can also mitigate major metabolic derangements arising from chronic illnesses which result in unwanted weight loss. Presenting data from human studies, clinical trials and recent research findings, this work summarizes the applications and benefits of this therapy. The book covers host response, quality factors, protein economics and muscle loss. It includes case studies on aging, AIDS, COPD, diabetes, inflammatory bowel

disease kidney failure and tuberculosis

Handbook of Meat Processing Fidel Toldrá, 2010-01-21 This handbook comprehensively presents the current status of the manufacturing of the most important meat products Editor and renowned meat expert Fidel Toldrá heads an international collection of meat scientists who have contributed to this essential reference book Coverage is divided into three parts Part one Technologies begins with discussions on meat chemistry biochemistry and quality and then provides background information on main technologies involved in the processing of meat such as freezing cooking smoking fermentation emulsification drying and curing Also included are key chapters on packaging spoilage prevention and plant cleaning and sanitation Part two Products is focused on the description of the manufacture of the most important products including cooked and dry cured hams cooked and fermented sausages bacon canned meat pat restructured meats and functional meat products Each chapter addresses raw materials ingredients and additives processing technology main types of products production data particular characteristics and sensory aspects and future trends Part three Controls offers current approaches for the control of the quality and safety of manufactured meat products with coverage including sensory evaluation chemical and biological hazards including GMOs HACCP and quality assurance This book is an invaluable resource for all meat scientists meat processors R D professionals and product developers Key features Unparalleled international expertise of editor and contributing authors Addresses the state of the art of manufacturing the most important meat products Special focus on approaches to control the safety and quality of processed meats Extensive coverage of production technologies sanitation packaging and sensory evaluation

Functional Dairy Products Maria Saarela, 2007-05-31 Dairy products have a prominent position in the development of functional foods As understanding of the health benefits of dairy products increases and consumer awareness of these health benefits grows demand for new and improved functional dairy products is likely to rise Functional dairy products Volume 2 reviews the latest developments in the field and their industrial applications Part one outlines the health benefits of functional dairy products and their applications in areas such as weight management child health and gut health The second part of the book discusses various ingredients used in functional dairy products such as pro and prebiotics hypoallergenic hydrolysates and plant sterols and stanols The final part of the book considers aspects of product development such as biomarkers and experimental models to investigate health benefits genomics of probiotic microorganisms and functional dairy product regulation and safety With its distinguished editor and collection of international authors Functional dairy products Volume 2 together with its companion volume provides professionals and researchers within the field with an invaluable reference Outlines the health benefits of functional dairy products and their applications in areas such as weight management and gut health Discusses ingredients used in functional dairy products such as pro and prebiotics Considers various aspects of product development

Physiological, Molecular, and Genetic Perspectives of Wheat Improvement Shabir H Wani, Amita Mohan, Gyanendra Pratap Singh, 2020-12-17 World population is growing at an alarming rate and may exceed 9.7 billion by

2050 whereas agricultural productivity has been negatively affected due to yield limiting factors such as biotic and abiotic stresses as a result of global climate change. Wheat is a staple crop for 20% of the world population and its yield needs be augmented correspondingly in order to satisfy the demands of our increasing world population. Green revolution the introduction of semi dwarf high yielding wheat varieties along with improved agronomic management practices gave rise to a substantial increase in wheat production and self sufficiency in developing countries that include Mexico India and other south Asian countries. Since the late 1980 s however wheat yield is at a standoff with little fluctuation. The current trend is thus insufficient to meet the demands of an increasing world population. Therefore while conventional breeding has had a great impact on wheat yield with climate change becoming a reality newer molecular breeding and management tools are needed to meet the goal of improving wheat yield for the future. With the advance in our understanding of the wheat genome and more importantly the role of environmental interactions on productivity the idea of genomic selection has been proposed to select for multi genic quantitative traits early in the breeding cycle. Accordingly genomic selection may remodel wheat breeding with gain that is predicted to be 3 to 5 times that of crossbreeding. Phenomics high throughput phenotyping is another fairly recent advancement using contemporary sensors for wheat germplasm screening and as a selection tool. Lastly CRISPR Cas9 ribonucleoprotein mediated genome editing technology has been successfully utilized for efficient and specific genome editing of hexaploid bread wheat. In summary there has been exciting progresses in the development of non GM wheat plants resistant to biotic and abiotic stress and or wheat with improved nutritional quality. We believe it is important to highlight these novel research accomplishments for a broader audience with the hope that our readers will ultimately adopt these powerful technologies for crops improvement in order to meet the demands of an expanding world population.

Indigenous Fermented Foods of South Asia V.K. Joshi, 2016-01-05 *Indigenous Fermented Foods of South Asia* covers the foods of India Pakistan Bangladesh Sri Lanka Nepal Bhutan Maldives and Afghanistan. For each type of food its microbiology biochemistry biotechnology quality and nutritional value is covered in depth. The book discusses numerous topics including various types of fermented foods their o *Genomics, Proteomics and Metabolomics in Nutraceuticals and Functional Foods* Debasis Bagchi, Anand Swaroop, Manashi Bagchi, 2015-10-12 Functional foods and nutraceuticals have received considerable interest in the past decade largely due to increasing consumer awareness of the health benefits associated with food. Diet in human health is no longer a matter of simple nutrition consumers are more proactive and increasingly interested in the health benefits of functional foods and their role in the prevention of illness and chronic conditions. This combined with an aging population that focuses not only on longevity but also quality of life has created a market for functional foods and nutraceuticals. A fully updated and revised second edition *Genomics Proteomics and Metabolomics in Nutraceuticals and Functional Foods* reflects the recent upsurge in omics technologies and features 48 chapters that cover topics including genomics proteomics metabolomics epigenetics peptidomics nutrigenomics and human health transcriptomics nutriethics.

and nanotechnology This cutting edge volume written by a panel of experts from around the globe reviews the latest developments in the field with an emphasis on the application of these novel technologies to functional foods and nutraceuticals

Animal Sourced Foods for Developing Economies Muhammad Issa Khan, Aysha Sameen, 2018-12-21 Animal products are good source of disposable income for many small farmers in developing countries In fact livestock are often the most important cash crop in many small holder mixed farming systems Livestock ownership currently supports and sustains the livelihoods of rural poor who depend partially or fully on livestock for their income and or subsistence Human population growth increasing urbanization and rising incomes are predicted to double the demand for and production of livestock products in the developing countries over the next twenty years The future holds great opportunities for animal production in developing countries Animal Sourced Foods for Developing Economies addresses five major issues 1 Food safety and nutritional status in developing world 2 the contribution of animal origin foods in human health 3 Production processes of animal foods along with their preservation strategies 4 functional outcomes of animal derived foods and finally 5 strategies issues and policies to promote animal origin food consumption Animal sourced food contain high biological value protein and important micronutrients required for optimal body functioning but are regarded as sources of fat that contribute to the intake of total and saturated fatty acids in diet The quality of protein source has a direct influence on protein digestibility as a greater proportion of higher quality proteins is absorbed and becomes available for bodily functions Animal foods has high quantity and quality of protein that includes a full complement of the essential amino acids in the right proportion Land availability limits the expansion of livestock numbers in extensive production systems in most regions and the bulk of the increase in livestock production will come from increased productivity through intensification and a wider adoption of existing and new production and marketing technologies The significant changes in the global consumption and demand for animal source foods along with increasing pressures on resources are having some important implications for the principal production systems In this book contributors critically analyze and describe different aspects of animal s origin foods Each chapter is dedicated to a specific type of food from animal source its nutritional significance preservation techniques processed products safety and quality aspects on conceptual framework Special attention is given to explain current food safety scenario in developing countries and contribution of animal derived food in their dietary intake Existing challenges regarding production processing and promotion of animal s origin foods are also addressed with possible solutions and strengthening approaches

Functional Foods Maria Saarela, 2011-04-30 The first edition of Functional foods Concept to product quickly established itself as an authoritative and wide ranging guide to the functional foods area There has been a remarkable amount of research into health promoting foods in recent years and the market for these types of products has also developed Thoroughly revised and updated this major new edition contains over ten additional chapters on significant topics including omega 3 polyunsaturated fatty acids consumers and health claims and functional foods for obesity

prevention Part one provides an overview of key general issues including definitions of functional foods and legislation in the EU the US and Asia Part two focuses on functional foods and health investigating conditions such as cardiovascular disease diabetes cancer obesity and infectious diseases as well as and the impact of functional foods on cognition and bone health Part three looks at the development of functional food products Topics covered include maximising the functional benefits of plant foods dietary fibre functional dairy and soy products probiotics and omega 3 polyunsaturated fatty acids PUFAs With its distinguished editors and international team of expert contributors Functional foods Concept to product is a valuable reference tool for health professionals and scientists in the functional foods industry and to students and researchers interested in functional foods Provides an overview of key general issues including definitions of functional foods and legislation in the EU the US and Asia Focuses on functional foods and health investigating conditions such as cardiovascular disease diabetes cancer obesity and infectious diseases Examines the development of functional food products featuring maximising the functional benefits of plant foods dietary fibre functional dairy and soy products

Proteomics in Foods

Fidel Toldrá, Leo M. L. Nollet, 2012-12-16 Food proteomics is one of the most dynamic and fast developing areas in food science The goal of this book is to be a reference guide on the principles and the current and future potential applications of proteomics in food science and technology More specifically the book will discuss recent developments and the expected trends of the near future in food proteomics The book will be divided into two parts The first part 7 chapters will focus on the basic principles for proteomics e g sample preparation such as extraction and separation techniques analytical instrumentation currently in use and available databases for peptide and protein identification The second part of the book 26 chapters will focus on applications in foods It will deal with quality issues related to post mortem processes in animal foods and quality traits for all foods in general as well as the identification of bioactive peptides and proteins which are very important from the nutritional point of view Furthermore consumers are now extremely susceptible to food safety issues and proteomics can provide reassurance with different safety aspects such as food authenticity detection of animal species in the food and identification of food allergens All of these issues will be covered in this book It is also worth noting that both editors are internationally recognized experts in the field of food science and both have edited numerous food science books and handbooks

Nutraceuticals and the Skin: Roles in Health and Disease Jean Christopher Chamcheu, Deebea Nadeem Syed, G. Kerr Whitfield, 2018-10-08 This book is a printed edition of the Special Issue Nutraceuticals and the Skin Roles in Health and Disease that was published in *Nutrients*

Research Anthology on Recent Advancements in Ethnopharmacology and Nutraceuticals Management Association, Information Resources, 2021-08-27 For hundreds of years indigenous populations have developed drugs based on medicinal plants Many practitioners especially advocates of traditional medicine continue to support the use of plants and functional foods as methods by which many ailments can be treated With relevance around the world as a complementary and alternative medicine advancements for the use of both ethnopharmacology and

nutraceuticals in disease must continually be explored especially as society works to combat chronic illnesses increasingly resilient infectious diseases and pain management controversies The Research Anthology on Recent Advancements in Ethnopharmacology and Nutraceuticals discusses the advancements made in herbal medicines and functional foods that can be used as alternative medical treatments for a variety of illness and chronic diseases The anthology will further explain the benefits that they provide as well as the possible harm they may do without proper research on the subject Covering topics such as food additives dietary supplements and physiological benefits this text is an important resource for dieticians pharmacists doctors nurses medical professionals medical students hospital administrators researchers and academicians

63rd International Congress of Meat Science and Technology Declan Troy,Ciara McDonnell,Laura Hinds,Joseph Kerry,2023-09-04 This book contains over 400 offered papers which were presented at the 63rd International Congress of Meat Science and Technology held in Cork Ireland from 13 18 August 2017 Under the theme of nurturing locally growing globally areas covered in the congress included meat sustainability and the role of the of meat science in a challenging global environment genetics and genomics the science of meat quality technological demands in meat processing from an Asian perspective international best practice in animal welfare scientific advances underpinning meat safety emerging technologies in meat processing meat science and impact consumer aspects meat biochemistry advancements in meat packaging and the congress ended with a session on meat and health with focus on sustaining healthy protein sources This year also included a session dedicated to addressing specific hot topics of importance to the industry and meat scientists These proceedings reflect the truly global nature of meat research and provide an insight into current research issues for the industry

Bioactive Peptides from Food Leo M.L. Nollet,Semih Ötleş,2022-03-28 A growing body of scientific evidence has revealed that many food peptides exhibit specific biological activities in addition to their established nutritional value Bioactive peptides present in foods may help reduce the worldwide epidemic of chronic diseases that account for a great number of premature deaths annually Bioactive peptides can be defined as isolated small fragments of proteins which provide some physiological health benefits They act as potential modifiers reducing the risk of many chronic diseases Bioactive Peptides from Food Sources Analysis and Functions considers fundamental concepts sources hydrolysis fractionation purification analysis chemical synthesis functions and regulatory status of nutraceutical bioactive peptides Methods of isolation of these peptides from different protein sources with their in vitro and vivo physiological effects are addressed Divided into seven sections this book delves into how these peptides play a major role in the development of various functional foods Numerous bioactive peptides have been reported in recent years as naturally present or generated from food proteins of different origins like milk eggs soya fish and meat Key Features Includes a detailed study of the different sources of bioactive peptides Discusses the health benefits such as antimicrobial antiallergic antihypertensive antitumor and immunomodulatory properties of peptides Explores the state of the art analysis methods of peptides Discovers the bioinformatics of possible

bioactive peptides Written by experts in their field from around the world Bioactive Peptides from Food reveals the world of databases of peptides It is a great resource for food scientists technologists chemists nutrition researchers producers and processors working in the whole food science and technology field as well as those who are interested in the development of innovative functional products

Role of Nutrition in Providing Pro-/Anti-Inflammatory Balance: Emerging Research and Opportunities Günşen, Uğur,Atan, Ramazan Mert,2020-04-03 Food selection plays an important role in ensuring pro and anti inflammatory balance Certain foods are responsible for increasing inflammation while others have anti inflammation properties Western diets especially rich in red meat simple carbohydrates and refined grains increase the levels of pro inflammatory markers C reactive protein CRP and interleukin 6 IL 6 Additionally short and long chain fatty acids various micronutrients including zinc selenium iron vitamin A probiotics and prebiotic foods affect inflammation As inflammation can be linked to a variety of diseases more studies are needed about nutrition and its ability to prevent inflammation Role of Nutrition in Providing Pro Anti Inflammatory Balance Emerging Research and Opportunities is an essential publication that examines balancing inflammation through nutrition and nutritional strategies Firstly information about the formation process of inflammation biomarkers used for diagnosis diseases affected by inflammation and their incidence in society are discussed Subsequently balancing inflammation in individuals through macro and micro nutrient consumption nutritional supplements probiotics and prebiotics bioactive proteins and peptides and dietary forms is examined Featuring research covering a broad range of topics including food supplements diet types and bioactive proteins this book is ideally designed for nutritionists dieticians clinicians doctors nurses healthcare providers researchers academicians and students

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