

# **Nutraceutical Proteins and Peptides in Health and Disease**

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# Nutraceutical Proteins And Peptides In Health And Disease

**Muhammad Issa Khan, Aysha Sameen**



## **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 b 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 that benefit numerous aspects of health and nutrition. Bioactive Food Proteins and Peptides: Applications in Human Health provides a human health perspective on food-derived proteins and peptides. It describes the potential for large-scale production with advances in technology and proposes challenges and opportunities for the future of health, nutrition, medicine, and the biosciences. The book begins by addressing properties related to chemistry and bioactivity. It examines proteins and peptides as allergens, antihypertensive agents, antimicrobials, antioxidants, and anticancer agents. It also discusses findings on the bioavailability and toxicity of food-derived peptides and intestinal functions. Next, the contributors present information on therapeutic peptides. They discuss recent developments in proteomics, bioavailability, and opportunities for designing future peptide-based foods. Providing a comprehensive review of bioactive proteins and peptides obtained from food sources, the book brings together the most up-to-date and essential information from eminent researchers from all over the world. Academics, food scientists, and technologists, nutritionists, biochemists, persons in industry, and government researchers and regulators will find this book to be an essential resource for new data and developments. 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

**Handbook of Functional Beverages and Human Health** Fereidoon Shahidi, Cesaretti 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

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 gelatine 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

*Designing Functional Foods* D. Julian McClements, Eric A Decker, 2009-07-30 The breakdown of food structures in the gastrointestinal tract has a major impact on the sensory properties and nutritional quality of foods Advances in understanding the relationship between food structure and the breakdown digestion and transport of food components within the GI tract facilitate the successful design of health promoting foods This important collection reviews key issues in these areas Opening chapters in Part one examine oral physiology and gut microbial ecology Subsequent chapters focus on the digestion absorption and physiological effects of significant food components such as lipids proteins and vitamins Part two then reviews advances in methods to study food sensory perception digestion and absorption including in vitro simulation of the stomach and intestines and the use of stable isotopes to determine mineral bioavailability The implications for the design of functional foods are considered in Part three Controlling lipid bioavailability using emulsion based delivery systems designing foods to induce satiation and self assembling structures in the GI tract are among the topics covered With contributions from leading figures in industry and academia Designing functional foods provides those developing health promoting products with a broad overview of the wealth of current knowledge in this area and its present and future applications Reviews digestion and absorption of food components including oral physiology and gut microbial ecology Evaluates advances in methods to study food sensory perception assessing criteria such as simulation of flavour released from foods Investigates the implications for the design of functional foods including optimising the flavour of low fat foods and controlling the release of glucose

**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 pathog

**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 Toldr 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

**Functional Polymers in Food Science** Giuseppe Cirillo, Umile Gianfranco Spizzirri, Francesca Iemma, 2015-03-09 Polymers are an important part in everyday life products made from polymers range from sophisticated articles such as biomaterials to aerospace materials One of the reasons for the great popularity exhibited by polymers is their ease of processing Polymer properties can be tailored to meet specific needs by varying the atomic composition of the repeat structure by varying molecular weight and by the incorporation via covalent and non covalent interactions of an enormous range of compounds to impart specific activities In food science the use of polymeric materials is widely explored from both an engineering and a nutraceutical point of view Regarding the engineering application researchers have discovered the most suitable materials for intelligent packaging which preserves the food quality and

prolongs the shelf life of the products Furthermore in agriculture specific functionalized polymers are used to increase the efficiency of treatments and reduce the environmental pollution In the nutraceutical field because consumers are increasingly conscious of the relationship between diet and health the consumption of high quality foods has been growing continuously Different compounds e g high quality proteins lipids and polysaccharides are well known to contribute to the enhancement of human health by different mechanisms reducing the risk of cardiovascular disease coronary disease and hypertension This second volume focuses on the importance of polymers and functional food and in food processing

Bioactive Components in Milk and Dairy Products Young W. Park, 2009-09-15 Although bioactive compounds in milk and dairy products have been extensively studied during the last few decades especially in human and bovine milks and some dairy products very few publications on this topic are available especially in other dairy species milk and their processed dairy products Also little is available in the areas of bioactive and nutraceutical compounds in bovine and human milks while books on other mammalian species are non existent Bioactive Components in Milk and Dairy Products extensively covers the bioactive components in milk and dairy products of many dairy species including cows goats buffalo sheep horse camel and other minor species Park has assembled a group of internationally reputed scientists in the forefront of functional milk and dairy products food science and technology as contributors to this unique book Coverage for each of the various dairy species includes bioactive proteins and peptides bioactive lipid components oligosaccharides growth factors and other minor bioactive compounds such as minerals vitamins hormones and nucleotides etc Bioactive components are discussed for manufactured dairy products such as caseins caseinates and cheeses yogurt products koumiss and kefir and whey products Aimed at food scientists food technologists dairy manufacturers nutritionists nutraceutical and functional foods specialists allergy specialists biotechnologists medical and health professionals and upper level students and faculty in dairy and food sciences and nutrition Bioactive Components in Milk and Dairy Products is an important resource for those who are seeking nutritional health and therapeutic values or product technology information on milk and dairy products from the dairy cow and species beyond Areas featured are Unique coverage of bioactive compounds in milks of the dairy cow and minor species including goat sheep buffalo camel and mare Identifies bioactive components and their analytical isolation methods in manufactured dairy products such as caseins caseinates and cheeses yogurt products koumiss and kefir and whey products Essential for professionals as well as biotechnology researchers specializing in functional foods nutraceuticals probiotics and prebiotics Contributed chapters from a team of world renowned expert scientists      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 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

**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

**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 source 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 source 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 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.

**Nutraceuticals and the Skin: Roles in Health and Disease** Jean Christopher Chamcheu, Deeba 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.

**Meat Biotechnology** Fidel Toldrá, 2008-09-03 Meat and meat products constitute one of the most important foods in western societies. However, the area of meat biotechnology is not as comprehensively covered as other areas of food biotechnology. Missing from this area are the recent developments for better sensory and nutritional quality as well as improved safety. The main goal of this book is to provide the reader with the recent developments in biotechnology and their applications in the

meat processing chain To achieve this goal the book is divided into four parts The first part deals with the use of modern biotechnology applied to farm animals The second part focuses on the recent biotechnological developments in starter cultures for better meat fermentation The third part discusses current approaches to improve the quality and nutritional properties of meats The final part presents the latest advances in protection against foodborne pathogens and other recent trends in the field Written by distinguished international contributors this book brings together the advances in such varied and different biotechnological topics

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