



Functional foods

Concept to product

Second edition

Edited by Maria Saarela

Functional Foods Second Edition Concept To Product
Woodhead Publishing Series In Food Science
Technology And Nutrition

G Talbot



Functional Foods Second Edition Concept To Product Woodhead Publishing Series In Food Science Technology And Nutrition:

Consumer-Driven Innovation in Food and Personal Care Products S R Jaeger, Hal MacFie, 2010-08-30 Experts from around the world present changes in the global marketplace and developments in research methodologies underpinning new product development NPD in this essential collection The business and marketing aspects of NPD sometimes neglected in books of this type are addressed alongside methods for product testing Trends processes and perspectives in consumer driven NPD in the food and personal care product industries are addressed in the opening chapters of the book Specific topics include evolution in food retailing and advances in concept research Hedonic testing is the focus of the next section Different viewpoints on consumer research methods and statistics for NPD are reviewed in later chapters The final part of the book looks towards the future of innovation covering the implications for NPD of topics such as human genetic variation in taste perception and neuroimaging Several chapters are not standard scientific articles Rather they are written records of conversations between two people on a particular topic related to consumer driven innovation in foods and personal care products In them the interviewees speak freely about their views and experiences in NPD providing unique insights Consumer driven innovation in food and personal care products will broaden readers understanding of the many approaches available to NPD personnel and ways in which they can be used to support innovation activities Provides expert insight into the changes in the global market place and developments in research methodologies underpinning NPD Examines the business and marketing aspects of NPD sometimes neglected in books of this type are addressed alongside methods for product testing Chapters review the different viewpoints on consumer research methods and statistics for NPD

Developing Food Products for Consumers with Specific Dietary Needs Steve Osborn, Wayne Morley, 2016-05-17

Developing Food Products for Customers with Specific Dietary Needs explains the process for developing foods for customers who have specific dietary needs further shining a light on the number of increasing medical conditions related to food intake that have emerged in the past few decades From increased fat and sugar intake leading to higher levels of obesity to greater levels of coeliac disease the ingredients and nutritional content of food is becoming more and more important Additionally consumers are following particular diets for many different reasons be it health related or for religious or moral reasons The first part of the book looks in detail at the organizational structure required within a company to allow for the development of food products which meet the needs of these customers while the second part presents a number of case studies highlighting the development of food products for various dietary requirements Precise coverage includes section on the development of low sodium low sugar low fat and low carbohydrate products with the aim of producing healthier foods as well as the development of organic and vegetarian products for consumers who are following diets for personal reasons The potential solutions for developing foods for customers who have specific dietary needs are likely to include both ingredients and

technology developments The ingredients area includes simple reductions as well as replacement strategies whilst technology will be applied to both the ingredient itself and the host food product All are aimed at maintaining the product quality as perceived by the customer Provides an overview of the organizational structure required within a company to develop foods for specific customer needs Includes section on the development of low sodium low sugar low fat and low carbohydrate products with the aim of producing healthier foods Presents case studies that deliver a best practice view on developing foods for customers with specific dietary needs Written by industry professionals this book offers in depth coverage of this topic of ever increasing importance to the food industry

Fibre-Rich and Wholegrain Foods Jan A Delcour, Kaisa Poutanen, 2013-03-26 Consumers are increasingly seeking foods that are rich in dietary fibre and wholegrains but are often unwilling to compromise on sensory quality Fibre rich and wholegrain food reviews key research and best industry practice in the development of fibre enriched and wholegrain products that efficiently meet customer requirements Part one introduces the key issues surrounding the analysis definition regulation and health claims associated with dietary fibre and wholegrain foods The links between wholegrain foods and health the range of fibre dietary ingredients and a comparison of their technical functionality are discussed as are consumption and consumer challenges of wholegrain foods Part two goes on to explore dietary fibre sources including wheat and non wheat cereal dietary fibre ingredients vegetable fruit and potato fibres Improving the quality of fibre rich and wholegrain foods including such cereal products as wholegrain bread muffins pasta and noodles is the focus of part three Fibre in extruded products is also investigated before part four reviews quality improvement of fibre enriched dairy products meat products seafood beverages and snack foods Companion animal nutrition as affected by dietary fibre inclusion is discussed before the book concludes with a consideration of soluble and insoluble fibre in infant nutrition With its distinguished editors and international team of expert contributors Fibre rich and wholegrain foods provides a comprehensive guide to the field for researchers working in both the food industry and academia as well as all those involved in the development production and use of fibre enriched and wholegrain foods Reviews key research and best industry practice in the development of fibre enriched and wholegrain products Considers analysis definition regulation and health claims associated with dietary fibre and wholegrain foods Explores sources of dietary fibre including wheat and non wheat cereal vegetable fruit and potato fibres

Lifetime Nutritional Influences on Cognition, Behaviour and Psychiatric Illness D Benton, 2011-07-14 The influence of nutrition on cognition and behaviour is a topic of increasing interest Emerging evidence indicates that nutrition in early life can influence later mental performance and that diet in later life can reduce cognitive decline Lifetime nutritional influences on cognition behaviour and psychiatric illness reviews the latest research into the effects of nutrition on cognition and behaviour across the lifespan and on psychiatric illness Part one investigates nutritional influences on brain development and cognition including the effects of early diet and the impact of key dietary constituents including long chain polyunsaturated fatty acids and iron Part two explores the link

between diet mood and cognition discussing carbohydrate consumption mood and anti social behaviour hydration and mental performance and the neurocognitive effects of herbal extracts among other topics Part three examines nutritional influences on behavioural problems psychiatric illness and cognitive decline including the role of nutrition in attention deficit hyperactivity disorder vitamin status and psychiatric disorders antioxidants and dementia and depression suicide and fatty acids With its distinguished editor and international team of expert contributors Lifetime nutritional influences on cognition behaviour and psychiatric illness is a valuable reference tool for researchers working on the effects of diet on the brain in both academia and industry and may also appeal to dieticians and nutritionists Reviews the latest research into the effects of nutrition on cognition and behaviour across the lifespan and on psychiatric illness Explores the link between diet mood and cognition discussing carbohydrate consumption mood and anti social behaviour Examines nutritional influences on behavioural problems psychiatric illness and cognitive decline

Foods, Nutrients and Food Ingredients with Authorised EU Health Claims Michele Jeanne Sadler, 2014-04-21 Foods Nutrients and Food Ingredients with Authorised EU Health Claims provides an overview of how health claims are regulated in the European Union as well as detailed scientific and regulatory information about permitted health claims for particular types of foods and ingredients Part one provides a background to the regulation of health claims in Europe Part two focuses on authorised disease risk reduction claims claims relating to children s development and health and proprietary claims Part three sets out ingredients with permitted general function claims including choline creatine sweeteners dietary lactase supplements and polyphenols in olive oil Part four outlines foods and nutrients with permitted health claims with chapters on vitamins and minerals proteins meat fish water and the replacement of saturated fats Foods Nutrients and Food Ingredients with Authorised EU Health Claims is the go to resource for R D managers and technical managers in the food and beverage and dietary supplements industry product development managers health professionals and academic researchers in the field Provides a comprehensive overview of foods and food substances that have achieved approved health claims in Europe under Regulation EC 1924/2006 Covers properties and applications of each ingredient as well as evidence for the health claim and how it benefits consumers Outlines the importance of each claim in product development and marketing and regulatory issues such as conditions of use

Reducing Saturated Fats in Foods G Talbot, 2011-04-19 The need to reduce saturated fat levels in food and the different ways of doing this are among the most important issues facing the food industry Reducing saturated fats in foods reviews the sources and effects of saturated fats in food and the ways in which the food industry can effectively reduce saturates Part one covers the functional and nutritional aspects of saturated fats in foods with chapters covering sources of dietary saturated fats their functional attributes and the health issues associated with saturated fatty acids Part two focuses on reducing saturated fats through food reformulation concentrating on both the technologies used and the food categories affected Chapters cover topics such as emulsion technology for reduction of saturated fats and the application of

diacylglycerol oils as well as different food categories including milk and dairy products processed meats fried foods and pastry products With its distinguished editor and international team of contributors Reducing saturated fats in foods is an essential reference for oils and fats processors and food manufacturers as well as those researching saturated fats in the academic sector Reviews the sources and effects of saturated fats in food and the ways in which the food industry can effectively reduce saturates Explores the functional and nutritional aspects of saturated fats in foods covering sources of dietary saturated fats and their functional attributes Focuses on reducing saturated fats through food reformulation concentrating on both the technologies used and the food categories affected

Open Innovation in the Food and Beverage Industry Marian Garcia Martinez, 2013-01-22 Food and beverage companies are increasingly choosing to enhance internal idea development by pursuing an open innovation approach allowing the additional exploitation of external ideas and paths to market Drawing on a range of important case studies Open innovation in the food and beverage industry investigates the challenges and opportunities afforded by the incorporation of open innovation into the food industry Part one provides a comprehensive overview of the changing nature of innovation in the food and drink industry acknowledging trends and considering the implications and impact of open innovation Part two then reviews the role of partners and networks in open innovation with collaboration co creation of value with consumers the effectiveness of cluster organizations and the importance of network knowledge all discussed before part three goes on to explore the establishment and varied management aspects of open innovation partnerships and networks Finally open innovation tools processes and managerial frameworks are the focus of part four with discussion of the development application and psychology of a range of initiatives With its distinguished editor and international team of expert contributors Open innovation in the food and beverage industry is a unique guide to the implementation and management of open innovation for all food industry professionals involved in management research and product development as well as academics with an interest in open innovation across all industries Investigates the challenges and opportunities afforded by the incorporation of open innovation into the food industry Provides a comprehensive overview of the changing nature of innovation in the food and drink industry and reviews the role of partners and networks in open innovation Explores the establishment and varied management aspects of open innovation partnerships and networks and discusses the development application and psychology of a range of initiatives

Colour Additives for Foods and Beverages Michael J. Scotter, 2015-02-04 Food colour additives have been the focus of much research in the last few years and there is increasing consumer demand for natural and safer synthetic colours This book reviews the natural and synthetic colours available their properties and applications as well as regulatory sensory and analytical issues Part one covers the development and safety of food colour additives Part two covers properties and methods of analysis and part three focuses on specific food product applications and future trends Reviews the natural and synthetic colour additives available for foods and beverages looking at their properties and applications as well as regulatory sensory

and analytical issues Expert analysis of natural origin colours synthetic origin colours overview of regulations safety analysis and consumer health Comprehensive coverage of properties and development in food colours chemical purity colour stability and consumer sensory perception Persistent Organic Pollutants and Toxic Metals in Foods Martin Rose, Alwin Fernandes, 2013-05-15 Persistent organic pollutants POPs and toxic elements such as dioxins flame retardants lead and mercury are substances of major concern for the food industry the regulator and the public They persist in the environment accumulate in food chains and may adversely affect human health if ingested over certain levels or with prolonged exposure Persistent organic pollutants and toxic metals in foods explores the scientific and regulatory challenges of ensuring that our food is safe to eat Part one provides an overview of regulatory efforts to screen monitor and control persistent organic pollutants and heavy metals in foods and includes case studies detailing regulatory responses to food contamination incidents Part two moves on to highlight particular POPs toxic metals and metalloids in foods including dioxins and polychlorinated biphenyls PCBs mercury polycyclic aromatic hydrocarbons PAHs and phthalates Persistent organic pollutants and toxic metals in foods is a standard reference for those in the food industry responsible for food safety laboratories testing for food chemical safety regulatory authorities responsible for ensuring the safety of food and researchers in industry and academia interested in the science supporting food chemical safety Includes case studies which detail regulatory responses to food contamination incidents Considers the uptake and transfer of persistent organic pollutants in the food chain and the risk assessment of contaminants in food Details particular persistent organic pollutants toxic metals and metalloids in foods including polychlorinated biphenyls PCBs per and polyfluoroalkyl substances PFASs mercury and arsenic among others

Functional Foods: Concept to Product (Second Edition, 2) Maria Saarela, 2011-05 A remarkable amount of research has been devoted to health promoting foods in the last eight years and the functional food market has grown significantly This new edition brings the first edition up to date and contains additional contributions from leaders in the field **The British National Bibliography** Arthur James Wells, 2001 **Functional Foods** Mingruo Guo, 2013-12-15 Functional foods products which have health promoting properties over and beyond their nutritional value have become a significant food industry sector The global market for these products remains dynamic and is predicted to grow further Functional foods Principles and technology provides both students and professionals with an authoritative introduction to the key scientific aspects and major product categories in this area The opening chapter introduces the principles of functional foods and explores industry and consumer roles in this evolving market Subsequent chapters focus on the most significant product categories reviewing ingredient sources classification chemical and physical properties the wide range of therapeutic effects and possible mechanisms of action among other topics Antioxidants dietary fiber prebiotics and probiotics lipids and soy are among the foods and food constituents covered The Appendix contains laboratory exercises aimed at those using this book in a classroom situation Functional foods principles and technology is an essential guide for all those studying and working with

functional foods Provides both students and professionals with an authoritative introduction to the key scientific aspects and major product categories Introduces the principles of functional foods and explores industry and consumer roles in this evolving market Focuses on the most significant product categories reviewing ingredient sources classification chemical and physical properties Functional Foods Mingruo Guo,2024-09-16 Functional Foods Principles and Technology Second Edition covers the definition history and development trends of functional foods Specifically this updated edition discusses the chemistry of functional components and their physiological properties of functional foods including antioxidants dietary fiber pre pro and paraprobiotics symbiotics and postbiotics selected nutritional supplements soy and soy foods human milk biochemistry and infant formula sports drinks chemistry and formulation aspects This book is sure to be of interest to food and nutrition researchers pharmacologists and those teaching and studying related fields Functional Foods , The Center for Science in the Public Interest located in Washington D C features the full text of the article entitled Functional Foods written by Beth Brophy and David Schardt and published in the April 1999 issue of the Nutrition Action Healthletter The article discusses the growing popularity of functional foods and the possibilities for the future Functional Food Product Development Jim Smith,Edward Charter,2010-06-28 According to an August 2009 report from PricewaterhouseCoopers the United States market for functional foods in 2007 was US 27 billion Forecasts of growth range from between 8.5% and 20% per year or about four times that of the food industry in general Global demand by 2013 is expected to be about 100 billion With this demand for new products comes a demand for product development and supporting literature for that purpose There is a wealth of research and development in this area and great scope for commercialization and this book provides a much needed review of important opportunities for new products written by authors with in depth knowledge of as yet unfulfilled health related needs This book addresses functional food product development from a number of perspectives the process itself health research that may provide opportunities idea creation regulation and processes and ingredients It also features case studies that illustrate real product development and commercialization histories Written for food scientists and technologists this book presents practical information for use in functional food product development It is an essential resource for practitioners in functional food companies and food technology centres and is also of interest to researchers and students of food science Key features A comprehensive review of the latest opportunities in this commercially important sector of the food industry Includes chapters highlighting functional food opportunities for specific health issues such as obesity immunity brain health heart disease and the development of children New technologies of relevance to functional foods are also addressed such as emulsion delivery systems and nanoencapsulation Includes chapters on product design and the use of functional ingredients such as antioxidants probiotics and prebiotics as well as functional ingredients from plant and dairy sources Specific examples of taking products to market are provided in the form of case studies e.g microalgae functional ingredients Part of the Functional Food Science and Technology book series Series Editor Fereidoon Shahidi

Functional Foods Navnidhi Chhikara, Anil Panghal, Gaurav Chaudhary, 2022-03-29 Functional Foods Presenting cutting edge information on new and emerging food engineering processes Functional Foods the second volume in the groundbreaking new series Bioprocessing in Food Science is an essential reference on the modeling quality safety and technologies associated with food processing operations today Functional Foods the second volume in series Bioprocessing in Food Science is an up to date comprehensive volume covering the preparation processes and health benefits of functional foods Written and edited by a team of experts in the field this important new volume provides readers extensive knowledge about different types of traditional and commercially available functional foods from different sources such as milk meat cereals millets and fruits and vegetables The main objective of this book is to disseminate knowledge about the recent technologies developed in the field of functional foods to students researchers and industry professionals This will enable them to make crucial decisions regarding the adoption implementation economics and constraints of the different technologies As the demand for healthy food is increasing manufacturers are searching for new possibilities for occupying a growing share in the rapidly changing food market Covering the use of conventional and non conventional sources prebiotics probiotics and many other topics with emphasis on their functionality in food systems this volume also provides insights on the specific packaging requirements for functional foods with maximum illustrations of how to enhance shelf life and create superior quality products The authors and editors discuss the need for regulatory frameworks government bodies guidelines and their challenges within the context of the functional food market Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library This outstanding new volume Discusses an overview of functional foods including global regulations legislations and packaging requirements Provides knowledge of functional ingredients and health benefits of functional foods from different plants animals and microbes sources Acquaints the readers about technological aspects for functional ingredients delivery Addresses the basic to advanced aspects of different functional foods combining the requirements health benefits and regulations showcasing the development of functional food products with potential functional benefits Audience Process and chemical engineers chemists engineers in other disciplines managers researchers scientists students and teachers working in the field of food engineering and processing

Phytochemical Functional Foods I T Johnson, G Williamson, 2003-05-12 Publisher supplied data Plant foods are rich in micronutrients but they also contain an immense variety of biologically active non nutritive compounds that contribute to colour flavour and other characteristics This book assesses the health benefits of phytochemicals as well as the functional benefits of particular groups of phytochemicals such as phytoestrogens carotenoids and flavonoids It covers key safety and quality issues in developing phytochemical products instituting appropriate intake levels testing for safety and establishing health claims through clinical trials This book will establish itself as a standard reference on one of the most important sectors in the functional foods market

Functional Food Products and

Sustainable Health Saghir Ahmad, Nasser Abdulatif Al-Shabib, 2020-08-29 There is a growing global awareness of the link between good diet and health This fascinating book reviews various functional foods or nutraceuticals and the bio active compounds they contain in order to identify the role of bioactive compounds such as nisin micronutrients and hydrocolloids in the diet in overall human health It also provides up to date information on functional elements like antioxidants dietary fibres pre probiotics vitamins and mineral enriched foods in the human diet Consisting of fifteen chapters the book offers a systematic review of the key factors in the preparation of functional foods from selected sources and also describes the processing preservation and packaging of a range of functional food products This book is a valuable resource for students and researchers working in the field of food science food technology and nutrition as well as for industry experts

Functional Foods and Nutraceuticals Chukwuebuka Egbuna, Genevieve Dable Tupas, 2020-08-24 Functional foods and nutraceuticals are food products that naturally offer or have been modified to offer additional health benefits beyond basic nutrition As such products have surged in popularity in recent years it is crucial that researchers and manufacturers understand the concepts underpinning functional foods and the opportunity they represent to improve human health reduce healthcare costs and support economic development worldwide *Functional Foods and Nutraceuticals Bioactive Components Formulations and Innovations* presents a guide to functional foods from experienced professionals in key institutions around the world The text provides background information on the health benefits bioavailability and safety measurements of functional foods and nutraceuticals Subsequent chapters detail the bioactive components in functional foods responsible for these health benefits as well as the different formulations of these products and recent innovations spurred by consumer demands Authors emphasize product development for increased marketability taking into account safety issues associated with functional food adulteration and solutions to be found in GMP adherence Various food preservation methods aimed at enhancing the quality and shelf life of functional food are also highlighted *Functional Foods and Nutraceuticals Bioactive Components Formulations and Innovations* is the first of its kind designed to be useful to students teachers nutritionists food scientists food technologists and public health regulators alike

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

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