



ADVANCES IN
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Volume 270

NEW DEVELOPMENTS IN DIETARY FIBER

**Physiological, Physicochemical,
and Analytical Aspects**

Edited by Ivan Furda
and Charles J. Brine

New Developments In Dietary Fiber Physiological Physicochemical And Analytical Aspects

Yehezkel Ben-Ari



New Developments In Dietary Fiber Physiological Physicochemical And Analytical Aspects:

New Developments in Dietary Fiber Ivan Furda, Charles J. Brine, 2013-04-09 It has been acknowledged that the physiological effects of dietary fiber are an exceedingly complex matter which requires a multidisciplinary research effort. The increased scientific involvement of the medical community, nutritionists, chemists, and physicists is not only warranted but it has become mandatory. This is because we are entering a more advanced research phase in which the observed *in vivo* effects should not be only recorded but they should be systematically correlated with the physicochemical and analytical properties of the individual dietary fibers. The Division of Agricultural and Food Chemistry of the American Chemical Society has recognized this for some time and has asked us to organize another International Symposium similar to one in 1982 which would address the latest developments in this field. We decided to ask a cross section of leading experts from industrial and academic research institutions to assess the state of the art in dietary fiber, namely in the areas of the physiological effects, physicochemical attributes, and in existing and proposed analytical methods. We also felt that chemistry and physical chemistry should play a greater role in fiber research to complement and better explain the existing *in vivo* data. There is a large volume of animal and human physiological and nutritional data available. Unfortunately, the generated information is frequently confusing. One reason is that this research is not conducted with well characterized compounds but rather with loosely defined complex mixtures or entities.

Advanced Dietary Fibre Technology Barry McCleary, Leon Prosky, 2008-05-27 Dietary fibre technology is a sophisticated component of the food industry. This highly practical book presents the state of the art and explains how the background science translates into commercial reality. An international team of experts has been assembled to offer both a global perspective and the nuts and bolts information relevant to those working in the commercial world. Coverage includes specific dietary fibre components with overviews of chemistry, analysis, and regulatory aspects of all key dietary fibres; measurement of dietary fibre and dietary fibre components *in vitro* and *in vivo*; general aspects, e.g. chemical and physical nature, rheology, and functionality; nutrition and health; and technological and current hot topics. Ideal as an up to date overview of the field for food technologists, nutritionists, and quality assurance and production managers.

Physiological and Clinical Aspects of Short-Chain Fatty Acids John H. Cummings, John L. Rombeau, Takashi Sakata, 2004-12-02 This is the first comprehensive volume to look at the importance of short chain fatty acids in digestion, the function of the large intestine, and their role in human health. Short chain fatty acids are the major product of bacterial fermentation of dietary carbohydrates in the human and animal large intestine. They represent the major end products of digestive processes occurring in the caecum and large intestine. As such, they form an important dietary component, and it is increasingly recognised that they may have a significant role in protecting against large bowel cancer and in metabolism. Prepared by an international team of contributors who are at the forefront of this area of research, this volume will be an essential source of reference for gastroenterologists, nutritionists, and others active in this area.

Current Catalog National Library of Medicine (U.S.),1991 First multi year cumulation covers six years 1965 70

Chromatography and Capillary Electrophoresis in Food Analysis Hilmer Sorensen,Susanne Sorensen,Charlotte Bjerregaard,Soren Michaelsen,2007-10-31 In the rapidly developing field of analysis it is important to be aware of the newest methods within available techniques Chromatography and Capillary Electrophoresis in Food Analysis describes chromatographic and electrophoretic principles and procedures for analyses of various amphiphilic and hydrophilic biomolecules particularly for food analysis Providing basic information including general sample preparation the book then goes on to describe individual analytical methods and exemplify the strategy and methodologies employed for the analyses The theory necessary to understand the methods and interpretation of results is also included as are numerous detailed instructions on experiments Tables figures and references are included to give a complete picture Chromatography and Capillary Electrophoresis in Food Analysis will be especially valuable for students and more experienced researchers

interested in analysis of natural products both inside and outside the field of food chemistry *History of Soybeans and*

Soyfoods in Missouri (1855-2022) William Shurtleff; Akiko Aoyagi,2022-01-29 The world s most comprehensive well documented and well illustrated book on this subject With extensive subject and geographic index 221 photographs and illustrations mostly color Free of charge in digital PDF format *History of Soy Nutritional Research (1990-2021)* William Shurtleff; Akiko Aoyagi,2021 The world s most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 30 photographs and illustrations mostly color Free of charge in digital PDF format

Analyzing Food for Nutrition Labeling and Hazardous Contaminants Ike Jeon,2020-08-26 This work provides up to date information on the various analytical procedures involved in both nutrition labelling and the identification and quantitation of hazardous chemicals in foods It assesses the relative strengths of traditional and modern analysis techniques The book covers all mandatory dietary components and many optional nutrients specified by the new labelling regulations of the Food and Drug Administration and the US Department of Agriculture Food Safety and Inspection Service **History of Ralston**

Purina Co. and the Work of William H. and Donald E. Danforth, Protein Technologies International, and Solae with Soy (1894-2020) William Shurtleff; Akiko Aoyagi,2020-09-14 The world s most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 98 photographs and illustrations mostly color Free of charge in digital PDF format *Food and Nutrition* Mark L Wahlqvist,2020-07-27 Food how we produce

prepare share and consume it is fundamental to our wellbeing It also connects the human body to the complex and dynamic systems of our environment This is more significant than ever before in human history as climate change and increasing population impact on global ecosystems This fourth edition of Food and Nutrition has been completely rewritten to reflect an ecosystems approach to human health It is shaped around four dimensions of human nutrition biology society environment and economy Food and Nutrition provides a comprehensive overview of food components and the biochemistry of foods and

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Technology of Functional Cereal Products B R Hamaker, 2007-11-08 Cereal grains and their fractions contain many health protecting compounds such as phytochemicals vitamins and indigestible carbohydrates but the texture and taste of functional cereal products can be less than ideal This important collection reviews technologies for producing a wide range of cereal products with different health promoting properties and more acceptable sensory quality The first part of the book discusses the health effects of cereals with chapters on topics such as whole grain foods cereal micronutrients and resistant starch Consumer perception of health promoting cereal products and regulatory and labelling issues are also described The second part focuses on technologies to improve the quality of functional cereal products reviewing issues such as grain improvement novel cereal derived ingredients and formulation of low GI products Chapters dedicated to a wide range of product types are also included covering cereal foods made from oats rye barley and speciality grains and breads fortified with vitamins and minerals soy and omega 3 lipids among others Technology of functional cereal products is an essential reference for all those involved in research and development of health promoting cereal based foods Reviews technologies for producing a wide range of cereal products Discusses the health effect of cereals including whole grain foods and cereal micronutrients Describes consumer perception of health promoting cereal products

Bioactive Molecules in Food Jean-Michel Mérillon, Kishan Gopal Ramawat, 2019-01-25 This reference work provides comprehensive information about the bioactive molecules presented in our daily food and their effect on the physical and mental state of our body Although the concept of functional food is new the consumption of selected food to attain a specific effect existed already in ancient civilizations namely of China and India Consumers are now more attentive to food quality safety and health benefits and the food industry is led to develop processed and packaged food particularly in terms of calories quality nutritional value and bioactive molecules This book covers the entire range of bioactive molecules presented in daily food such as carbohydrates proteins lipids isoflavonoids carotenoids vitamin C polyphenols bioactive molecules presented in wine beer and cider Concepts like French paradox Mediterranean diet healthy diet of eating fruits and vegetables vegan and vegetarian diet functional foods are described with suitable case studies Readers will also discover a very timely compilation of methods for bioactive molecules analysis Written by highly renowned scientists of the field this reference work appeals to a wide readership from graduate students scholars researchers in the field of botany agriculture

pharmacy biotechnology and food industry to those involved in manufacturing processing and marketing of value added food products

History of Modern Soy Protein Ingredients - Isolates, Concentrates, and Textured Soy Protein

Products (1911-2016) William Shurtleff; Akiko Aoyagi, 2016-01-17 The world's most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 405 photographs and illustrations mostly color Free of charge in digital PDF format on Google Books

Circulating Regulatory Factors and Neuroendocrine

Function Daniela Jezová, John C. Porter, 2013-04-09 During the past several decades much research effort has gone into the elucidation of the role of neuroendocrine systems as secretory and metabolic regulators of cells of a variety of organs and structures including the testes ovaries adrenals thyroid pituitary gland and mammary glands However the role of cells comprising such organs and structures in the modulation of neuroendocrine processes has received considerably less is generally less well appreciated attention and Nonetheless it is important that we understand the actions on neuroendocrine systems of substances that reach the brain by way of the vasculature including hormones cytokines toxins amino acids drugs and similar agents In order to analyze the present state of knowledge on this topic experimental scientists and clinicians whose shared interests include actions of circulating agents on the brain met at a satellite symposium of the XXXI International Congress of Physiological Sciences This symposium entitled Circulating Regulatory Factors and Neuroendocrine Function was held in Smolenice Castle Czechoslovakia June 26 July 1 1989 and reviews delivered at this symposium as invited presentations are published in this volume Presentations given as free communications have been published separately and are available in *Endocrinologia Experimentalis* 24 1 273 1990

Molecular Biology of

Erythropoiesis Joao L. Ascensao, 2012-12-06 This volume presents the proceedings of the Fourth Annual Symposium on the Molecular Biology of Hemopoiesis held in Reno Nevada November 1 and 2 1988 Its focus on erythropoiesis represents an attempt to cover a rapidly expanding field which has gone from elegant studies of erythropoietin physiology to molecular biology to clinical applications and again to physiology The rapid development has been made possible by cloning of erythropoietin gene and the availability of recombinant hormone The regulation of heme and its derivatives has also been aided by techniques of molecular biology there is now a concerted effort to better understand how these enzymes contribute to proliferation differentiation and maturation of the erythron Globin gene rearrangements have been targets of recent research in an attempt to correct the defect by genetic engineering In the chapters of this book several groups expressed their views on this subject Finally we analyze various regulators of erythropoiesis both in vivo and in vitro Dr Richard Levere was a pioneer in many studies of heme metabolism and of erythropoiesis He has been a generous supporter of research in this field and of our past meetings It is only fitting that this volume should be dedicated to him

The Glycemic Index

Elena Philippou, 2016-09-19 In 1981 David Jenkins Thomas Wolever and colleagues introduced the concept of the glycemic index GI to differentiate carbohydrates based on the rate of blood glucose rise following their consumption Although GI was

first used in diet therapy for diabetes research evidence has accumulated since then to thousands of publications from all over the world with applications for prevention and or management of many diseases as well as effects on physiological states and exercise The Glycemic Index Applications in Practice has gathered together in an unbiased and critical way all the evidence and research on GI including diabetes cardiovascular disease cancer obesity polycystic ovary syndrome pregnancy outcomes sports performance eye health and cognitive functioning It provides a detailed explanation on how to correctly measure a food s GI how the GI of food products can be altered as well as the use and misuse of GI labelling around the globe The contributors are either pioneers or experts in the area of GI from all around the globe including Australia Canada Europe and the United States The book is a valuable source of information for healthcare professionals of various disciplines nutritionists dietitians food scientists medical doctors sports scientists psychologists public health nutrition policy makers and students in these fields as well as an important addition to university libraries Excitatory Amino Acids and Neuronal Plasticity Yehezkel Ben-Ari, 2013-11-11 Proceedings of the European Neuroscience Association Satellite Symposium held in Fillerval France August 27 31 1989 Consensus on Hyperthermia for the 1990s Haim I. Bicher, John R. McLaren, Giuseppe M. Pigliucci, 2013-03-08 Hyperthermia as a safe and effective cancer treatment modality is rapidly evolving propelled by widespread research and clinical efforts worldwide Presentations on Hyperthermia experience are now commonplace at Oncology meetings as are congresses dedicated entirely to the intertwined interactions between basic sciences and patient treatment that together are forming the structure of a new medical specialty Such was the XII International Symposium on Clinical Hyperthermia held in Rome Italy April 27 29 1989 Papers presented therein constitute the backbone of this book Biology research has provided data describing mechanisms of action for the cancer cell killing and physiological effects of Hyperthermia Physics research has led to the development of equipment enabling treatment of many areas of the human body as well as explained the limitations that still constrain our ability to treat especially in the areas of deep seated tumor heating and non invasive thermometry The main question that will decide the future of this modality is that of its clinical use To put it succinctly what do we do with this potentially useful tool in an everyday clinical oncological practice This is the main question addressed in this book as Consensus on Hyperthermia for the 1990s The book includes 28 presented papers and 25 invited chapters from some of the leading experts in the field Their basic mechanisms of action were physics principles treatment quality assurance and especially clinical indications **Chia** Ricardo Ayerza, Wayne Coates, 2005-02 In this book agronomist Ricardo Ayerza and agricultural engineer Wayne Coates trace the long and fascinating history of chia s use then reveal the scientific story of the plant and its modern potential They compare fatty acid profiles of chia with our other major sources fish oil flaxseed and marine algae and provide evidence that chia is superior in many ways Here are just some of the benefits that chia provides chia has the highest known percentage of alpha linolenic acid and the highest combined alpha linolenic and linoleic fatty acid percentage of all crops chia has more protein lipids energy and fiber but

fewer carbs than rice barley oats wheat or corn and its protein is gluten free chia is an excellent source of calcium phosphorus magnesium potassium iron zinc and copper chia is low in sodium salmon has 78 times as much tuna 237 times as much chia exhibits no evidence of allergic response even in individuals with peanut and tree nut allergies chia doesn't give off a fishy flavor unlike some other sources of omega 3 fatty acid superior to other plant and marine sources of omega 3 low in sodium high in protein lipids and fiber fewer carbs than most other grains valued as an energy source for athletic endurance

Carbohydrates in Human Nutrition Food and Agriculture Organization of the United Nations, 1998 The Joint FAO WHO Expert Consultation on Carbohydrates in Human Nutrition was held in Rome from 14 to 18 April 1997 P xv

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