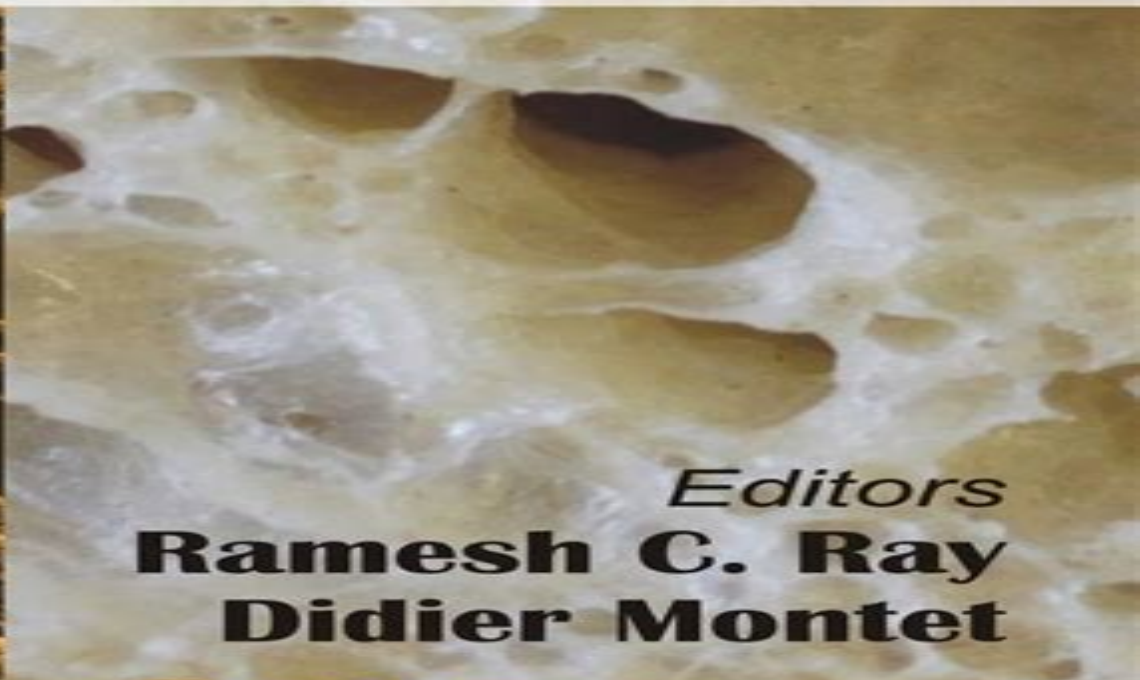
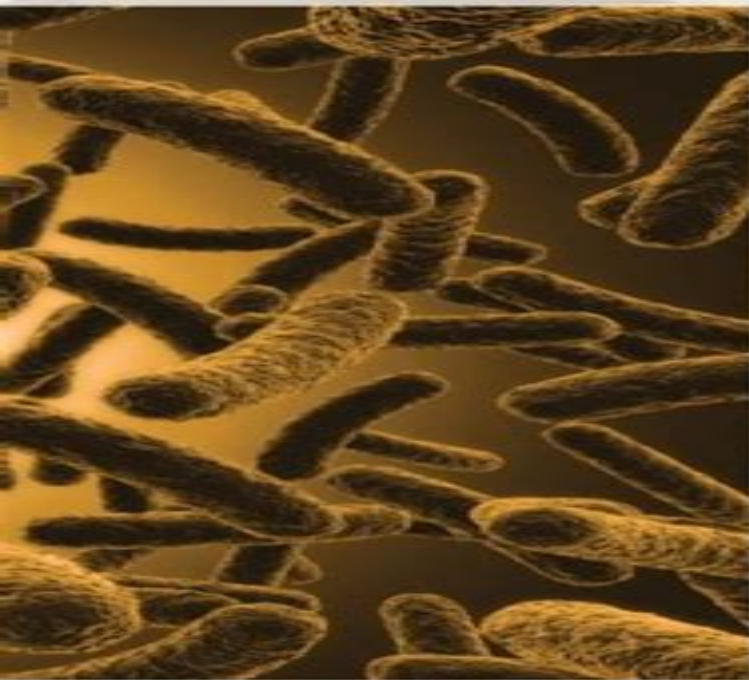


Food Biology Series

Microorganisms and Fermentation of Traditional Foods



Editors
Ramesh C. Ray
Didier Montet



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Microorganisms And Fermentation Of Traditional Foods

Food Biology Series

Rosa María Martínez-Espinosa



Microorganisms And Fermentation Of Traditional Foods Food Biology Series:

Microorganisms and Fermentation of Traditional Foods Ramesh C. Ray, Montet Didier, 2014-08-21 The first volume in a series covering the latest information in microbiology biotechnology and food safety aspects this book is divided into two parts Part I focuses on fermentation of traditional foods and beverages such as cereal and milk products from the Orient Africa Latin America and other areas Part two addresses fermentation biology discussing specific topics including microbiology and biotechnology of wine and beer lactic fermented fruits and vegetables coffee and cocoa fermentation probiotics bio valorization of food wastes and solid state fermentation in food processing industries

Microorganisms and Fermentation of Traditional Foods Ramesh C. Ray, Montet Didier, 2014-08-21 The first volume in a series covering the latest information in microbiology biotechnology and food safety aspects this book is divided into two parts Part I focuses on fermentation of traditional foods and beverages such as cereal and milk products from the Orient Africa Latin America and other areas Part two addresses fermentation biolog

Indigenous Fermented Foods for the Tropics Oluwafemi Ayodeji Adebo, Chiemela Enyinnaya Chinma, Adewale Olusegun Obadina, Antonio Gomes Soares, Sandeep K. Panda, Ren-You Gan, 2023-01-21 Indigenous Fermented Foods for the Tropics provides insights on fermented foods of the Tropics particularly Africa Asia and South America highlighting key aspects and potential developments for these food products Sections provide an overview on the production and composition nutritional physicochemical health beneficial and microbiota of these indigenous fermented foods in the tropics innovative techniques for investigating the composition of these fermented food products and improvement of the fermentation process to yield better nutritional constituents health beneficial components and sensory qualities and safety aspects to be considered in fermented foods Other sections provide insights into the packaging and marketing of these food products as well as future prospects of fermented foods in the tropics This book provides new perspectives and recent information to complement existing texts on indigenous fermented foods serving as a valuable reference text for detailed insights into indigenous fermented foods of the tropics Discusses fermented foods from the Africa Asia and South America based on the raw materials used Offers innovative techniques for improving these indigenous products and investigating their composition as well as upgrading traditional technologies used in the production of fermented products Covers the role of technology and innovations in the quest for enhancing quality and safety of fermented foods as demand for fermented food and beverage products is increased

Bioactive Compounds in Fermented Foods Amit Kumar Rai, Anu Appaiah K. A., 2021-11-29 The volume reviews different types of bioactive components associated with food fermentation and their impact on human health The diversity of microorganism responsible for the production of different types of fermented foods and beverages includes bacteria yeasts and fungi Biotransformation of food constituent by microorganisms occurs during fermentation processes for the production of fermented food and in the gastrointestinal tract by gut microorganisms This biotransformation results in production of specific bioactive compounds

that are responsible for a wide range of health benefits. The bioactive compounds discussed in this book include polyphenols, bioactive peptides, fibrinolytic enzymes, gamma amino butyric acids, GABA, exopolysaccharides, probiotic, prebiotic, symbiotic, and antinutritional factors. These bioactive compounds are responsible for health benefits such as antioxidant, antihypertension, antimicrobial, cholesterol lowering, anticancer, obesity, and antithrombotic properties. Advanced research in the field of food fermentation and their health benefits have resulted in commercialization of some of the fermented foods as functional foods. The traditional fermented foods consumed in different parts of the world and their health benefits are discussed in detail, and the book concludes with recent advances in microbial transformation during gut fermentation and their impact on human health. There has been increasing interest among researchers on the proposed title in the last decade, and the book brings updated information on research and advances in different types of health benefits exhibited by bioactive compounds in a wide range of fermented foods.

Seafood Safety and Quality Md. Latiful Bari, Koji Yamazaki, 2018-08-06 Seafood Safety and Quality continues to be a major public health issue, and its importance has escalated to unprecedented levels in recent years. In this book, major seafood-borne diseases and key safety issues are reviewed. In addition, emerging microbial agents, fish toxins, and other contaminants, including heavy metal, allergy, water safety, and related topics are discussed. It also addresses the challenges faced by both developed and developing countries to ensure seafood safety in new seafood products and processing technologies, seafood trade, safety of foods derived from biotechnology, microbiological risks, emergence of new and antibiotic-resistant pathogens, particularly from emerging pathogens, directing research to areas of high risk, focus intervention, and establishment of target risk levels and target diseases or pathogens. The book serves as a comprehensive resource on the seafood-borne diseases and a wide variety of responsible etiologic agents, including bacteria, viruses, parasites, seafood toxins, and environmental toxins. It has been written in a simple manner and should promote the efforts of the scientific community to deliver safe seafood for a better health and environment.

Fermented Foods, Part II Ramesh C. Ray, Didier Montet, 2017-05-25 This book reviews the use of fermentation to develop healthy and functional foods and beverages and the commercialization of fermented food products through the use of biotechnology. The first two sections cover the health and functional benefits of fermented foods, and the latter two sections include chapters on global and region-specific fermented foods that have crossed the geographical barriers to reach supermarkets all over the world.

Food Molecular Microbiology Spiros Paramithiotis, Jayanta K Patra, 2019-02-14 With the advances in the field of molecular biology, new tools make it possible to conduct in-depth studies in food microbial communities from a molecular perspective. Information from genomic, transcriptomic, proteomic, and metabolomic studies can be integrated through bioinformatic applications, thereby improving our understanding of the interactions between biotic and abiotic factors and concomitantly the physiology of starter cultures, spoilage, and pathogenic microbiota. Improvements in the speed, accuracy, and reliability of food quality and safety assessment have made the foundation stronger for future developments, including the exploitation of

gene networks and applications of nanotechnology and systems biology This book reviews all these developments provides an integrated view of the subject and helps in identifying areas of future development Acetic Acid Bacteria Ilkin Yucel Sengun,2017-06-28 This book written by leading international authorities in the field covers all the basic and applied aspects of acetic acid bacteria It describes the importance of acetic acid bacteria in food industry by giving information on the microbiological properties of fermented foods as well as production procedures Special attention is given to vinegar and cocoa which are the most familiar and extensively used industrial applications of acetic acid bacteria This book is an essential reference to all scientists technologists engineers students and all those working in the field of food science and technology

Microbial Enzyme Technology in Food Applications Ramesh C. Ray,Cristina M. Rosell,2017-03-27 The aim of food processing is to produce food that is palatable and tastes good extend its shelf life increase the variety and maintain the nutritional and healthcare quality of food To achieve favorable processing conditions and for the safety of the food to be consumed use of food grade microbial enzymes or microbes being the natural biocatalysts is imperative This book discusses the uses of enzymes in conventional and non conventional food and beverage processing as well as in dairy processing brewing bakery and wine making Apart from conventional uses the development of bioprocessing tools and techniques have significantly expanded the potential for extensive application of enzymes such as in production of bioactive peptides oligosaccharides and lipids flavor and colorants Some of these developments include extended use of the biocatalysts as immobilized encapsulated enzymes microbes both natural and genetically modified as sources for bulk enzymes solid state fermentation technology for enzyme production Extremophiles and marine microorganisms are another source of food grade enzymes The book throws light on potential applications of microbial enzymes to expand the base of food processing industries

Encapsulation in Food Processing and Fermentation Steva Lević,Viktor Nedović,Branko Bugarski,2022-08-18 Food technology has adopted new principles and practices that are rapidly changing the food sector New foods are now available under more uniform standards and better quality control Globalised food market offers opportunities for manufacturers to increase production and profit and at the same time consumers benefit from the choice of food products like never before All this is possible only because of the innovations in the food sector One of such innovations is encapsulation technology which aims to preserve food quality enhance the sensorial properties of food and increase the efficiency in food processing This book discusses the uses of encapsulation technology in food practices and conventional processes and also highlights new directions in food processing In the introductory chapters review of encapsulation technologies carrier materials and criteria for their selection analytical methods for characterisation of encapsulated products and some aspects of product design and process optimisation The most important achievements of encapsulation technology in the food sector are reviewed in the later chapters related to encapsulation of food ingredients food biocatalysts and examples of usage of encapsulated active ingredients in the dairy and meat industry beverage production etc In addition

the implementation of nanotechnology in the food sector is reviewed emphasizing the most important materials and technologies for the production of nanoencapsulates The book is a valuable source of information on encapsulation technology for academia and industry especially the food sector with the aim of enhancing knowledge transfer

Authenticity of Foods of Plant Origin Konstantinos Kotsanopoulos, 2022-06-15 Food is adulterated to increase profit or due to negligence Adulteration can compromise food safety and quality and harm consumers This may undermine consumer trust and the reputation of the food industry As such it is very important to monitor control and detect adulteration A number of techniques have been developed for the authentication of food and verifying its quality and associated claims Foods of plant origin are the source of nutrients for billions of people around the globe Due to the huge variety of plants and the lack of visual characteristics as a result of processing advanced techniques are required to detect adulteration This book reviews the latest developments in the field of authenticity of foods of plant origin examining concepts such as traceability and how they are applied to facilitate the support of claims as well as legislative requirements in the major economies around the world The basic techniques used nowadays in verifying authenticity of these types of foods are reviewed and discussed and their applications are summarized The book also focuses on categories of foods most prone to adulteration attempts due to their characteristics properties and production methods commonly followed thus allowing the reader to more easily identify the chapter that is of interest in each case The book will be of interest to food industrialists chemists quality control scientists and technologists microbiologists analytical chemists and food physical chemists within the food industry It is also aimed at academicians who are interested in the authenticity of foods of plant origin and the advancements in the analytical fields that support relevant legal and marketing requirements

Handbook of Cereals, Pulses, Roots, and Tubers Sneha Punia Bangar, Anil Siroha, Manoj Kumar, 2021-10-10 Cereals pulses roots and tubers are major food sources worldwide and make a substantial contribution to the intake of carbohydrates protein and fiber as well as vitamin E and B The Handbook of Cereals Pulses Roots and Tubers Functionality Health Benefits and Applications provides information about commercial cereals pulses and their nutritional profile as well as health benefits and their food and non food applications Split into four sections this handbook covers all the recent research about the related crops and outlines matters needing further research in the field of agriculture sciences Both qualitative and quantitative analysis of nutrients and bio actives and their beneficial effects on human health are highlighted in this book The conclusions drawn and future perspectives proposed in each chapter will also help researchers to take more focused approaches

FEATURES Covers the full spectrum of cereals pulses roots and tubers grain production processing and their use for foods feeds fuels and industrial materials and other uses Contains the latest information from grain science professionals and food technologists alike Provides comprehensive knowledge on the nutritional and non nutritional aspects of cereals pulses and tubers Discusses the latest development in modification of native starch Provides information in enhancing shelf life and its utilization in phytochemical rich product

development The result of various well versed researchers across the globe sharing their knowledge and experience this handbook will be a valuable resource for students researchers and industrial practioners who wish to enhance their knowledge and insights on cereals pulses roots and tubers

Winemaking V. K. Joshi,Ramesh C. Ray,2021-02-09 Wine is one of the oldest forms of alcoholic beverages known to man Estimates date its origins back to 6000 B C Ever since it has occupied a significant role in our lives be it for consumption social virtues therapeutic value its flavoring in foods etc A study of wine production and the technology of winemaking is thus imperative The preparation of wine involves steps from harvesting the grapes fermenting the must maturing the wine stabilizing it finally to getting the bottled wine to consumers The variety of cultivars methods of production and style of wine along with presentation and consumption pattern add to the complexity of winemaking In the past couple of decades there have been major technological advances in wine production in the areas of cultivation of grapes biochemistry and methods of production of different types of wines usage of analytical techniques has enabled us to produce higher quality wine The technological inputs of a table wine dessert wine or sparkling wine are different and has significance to the consumer The role played by the killer yeast recombinant DNA technology application of enzyme technology and new analytical methods of wine evaluation all call for a comprehensive review of the advances made This comprehensive volume provides a holistic view of the basics and applied aspects of wine production and technology The book comprises production steps dotted with the latest trends or the innovations in the fields It draws upon the expertise of leading researchers in the wine making worldwide

Food Traceability and Authenticity Didier Montet,Ramesh C. Ray,2017-11-22 Food traceability is a growing consumer concern worldwide Traceability is undertaken primarily at the administrative level where the use of advanced analytical tools is not available Nevertheless the determination of geographical origin is a requirement of the traceability system for the import and export of foodstuffs EU regulation 178 2002 The topics covered in this book include the history of traceability legislations and rules the actual traceability techniques and the potential analytical techniques for food traceability such as molecular methods e g DGGE SSCP next generation sequencers NGS bio captors chromatographic techniques isotopic analysis that are used for discrimination of organic food fish oils The chromatographic techniques help in the use of volatile compounds analysis The isotope analysis helps in distinguishing between chicken meat and vegetable oils Ambient mass spectrometry is used for studying mycotoxines and alkaloids in foodstuffs and their management food and feed authentication in olive and other plant oils and wine Vibrational methods e g NMR and NIRS are used to trace food by global spectrum The book reviews the current and future techniques including metabolomic techniques

Fermented Foods, Part I Didier Montet,Ramesh C. Ray,2016-04-19 Traditional fermented foods are not only the staple food for most of developing countries but also the key healthy food for developed countries As the healthy functions of these foods are gradually discovered more high throughput biotechnologies are being used to promote the fermented food industries As a result the microorganisms process bioc

Mycotoxins in Food and Beverages Didier Montet, Catherine Brabet, Sabine Schorr-Galindo, Ramesh C. Ray, 2021-06-02

Mycotoxins are secondary metabolites produced by fungi in a wide range of foods cereals peanut tree nuts dried fruits coffee cocoa grapes spices both in the field and after harvest particularly during storage They can also be found in processed foods of plant origin or by transfer in food products of animal milk eggs meat and offal Mycotoxins are of major concern since they can cause acute or chronic intoxications in both humans and animals which are sometimes fatal Many countries particularly in Europe have set maximum acceptable levels for mycotoxins in food and feed The book reviews the latest literature and innovations on important aspects of mycotoxins e g mycotoxin producing fungi and the related ecosystems mycotoxin occurrence toxicity analysis and management Quantitative estimation of impacts of climate change on mycotoxin occurrence have been made recently using predictive modelling There is also a growing interest in studying the occurrence and toxicity of multiple mycotoxins in food and feed including emerging or modified forms of mycotoxins Innovative tools have also developed to detect and quantify toxinogenic fungi and their toxins In order to reduce the use of chemicals that are harmful to the environment and health of consumers alternative methods of prevention and decontamination of mycotoxins were tested in pre and post harvest using microorganisms natural substances or radiation treatments

New Advances on Fermentation Processes Rosa María Martínez-Espinosa, 2020-02-05 In recent years there has been an increase in the concern of society and industries about how food and beverages are produced the production of natural compounds as well as the concern of industries on fermentation based processes Thus there are several approaches worldwide that are looking for low time and low cost fermentation based processes integrating not only molecular biology procedures but also engineering This book contains eleven chapters written by international experts in the field of fermentation It covers all recent aspects on fermentation based processes with potential applications in many fields such as bio combustible production food and beverage processing and biomedicine

Functional Foods and Biotechnology Kalidas Shetty, Dipayan Sarkar, 2020-04-13 The second book of the Food Biotechnology series Functional Foods and Biotechnology Biotransformation and Analysis of Functional Foods and Ingredients highlights two important and interrelated themes biotransformation innovations and novel bio based analytical tools for understanding and advancing functional foods and food ingredients for health focused food and nutritional security solutions The first section of this book provides novel examples of innovative biotransformation strategies based on ecological biochemical and metabolic rationale to target the improvement of human health relevant benefits of functional foods and food ingredients The second section of the book focuses on novel host response based analytical tools and screening strategies to investigate and validate the human health and food safety relevant benefits of functional foods and food ingredients Food biotechnology experts from around the world have contributed to this book to advance knowledge on bio based innovations to improve wider health focused applications of functional food and food ingredients especially targeting non communicable chronic disease NCD and food safety relevant

solution strategies Key Features Provides system science based food biotechnology innovations to design and advance functional foods and food ingredients for solutions to emerging global food and nutritional insecurity coupled public health challenges Discusses biotransformation innovations to improve human health relevant nutritional qualities of functional foods and food ingredients Includes novel host response based food analytical models to optimize and improve wider health focused application of functional foods and food ingredients The overarching theme of this second book is to advance the knowledge on metabolically driven food system innovations that can be targeted to enhance human health and food safety relevant nutritional qualities and antimicrobial properties of functional food and food ingredients The examples of biotransformation innovations and food analytical models provide critical insights on current advances in food biotechnology to target design and improve functional food and food ingredients with specific human health benefits Such improved understanding will help to design more ecologically and metabolically relevant functional food and food ingredients across diverse global communities The thematic structure of this second book is built from the related initial book which is also available in the Food Biotechnology Series Functional Foods and Biotechnology Sources of Functional Food and Ingredients edited by Kalidas Shetty and Dipayan Sarkar ISBN 9780367435226 For a complete list of books in this series please visit our website at <https://www.crcpress.com> Food Biotechnology Series book series CRCFOOBIOTECH

Good Microbes in Medicine, Food Production, Biotechnology, Bioremediation, and Agriculture Frans J. de Bruijn, Hauke Smidt, Luca S. Cocolin, Michael Sauer, David N. Dowling, Linda Thomashow, 2022-09-21 Discover the positive and helpful contributions made by microorganisms to various areas of human health food preservation and production biotechnology industry environmental clean up and sustainable agriculture In Good Microbes in Medicine Food Production Biotechnology Bioremediation and Agriculture a team of distinguished researchers delivers a comprehensive and eye opening look at the positive side of bacteria and other microbes The book explores the important and positive roles played by microorganisms Divided into five sections Good Microbes examines the use of microorganisms and the microbiome in human health food production industrial use bioremediation and sustainable agriculture Coverage spans from food allergies skin disorders microbial food preservation and fermentation of various beverages and food products also from an ethnical point of view to beneficial use of microbes in biotechnology industry bioeconomy environmental remediation such as resource recovery microbial based environmental clean up plant microbe interactions in biorestauration biological control of plant diseases and biological nitrogen fixation Provides basic knowledge on bacterial biology biochemistry genetics and genomics of beneficial microbes Includes practical discussions of microbial biotechnology including the contribution of microbial biotechnology to sustainable development goals Features a comprehensive introduction and extensive index to facilitate the search for key terms Perfect for scientists researchers and anyone with an interest in beneficial microbes Good Microbes in Medicine Food Production Biotechnology Bioremediation and Agriculture is also an indispensable resource for microbiology graduate students applied

microbiologists and policy makers *Trends in Wheat and Bread Making* Charis M. Galanakis, 2020-11-19 *Trends in Wheat and Bread Making* provides a comprehensive look at the state of the art in bread making from ingredient to shelf life with a focus on the impact of processing on the nutritional value and consumer acceptability of this global staple. The book also includes chapters on new breads and bakery products fortified with plant processing by products and/or natural antioxidants and explores efforts to improve biotechnological processes and fermentation for bread making. It is an excellent resource for researchers, industry professionals, and enterprises hoping to produce enhanced bread products through processing-related nutritional and quality improvements. Addresses gluten-free products, organic farming, and production techniques, enzymatic and biotechnological techniques, fortification of breads with plant by products and phenol-rich substrates. Fills the gap in current resources focusing on the application of new technologies for processing practices. Provides a guide to industrial and commercialized applications of innovative breadmaking.

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