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Editors

Maize: Nutrition Dynamics and Novel Uses

 Springer

Maize Nutrition Dynamics And Novel Uses

**Joginder Singh, Sawinder Kaur, Prasad
Rasane, Jyoti Singh**



Maize Nutrition Dynamics And Novel Uses:

Maize: Nutrition Dynamics and Novel Uses Dharam Paul Chaudhary, Sandeep Kumar, Sapna Langyan, 2013-12-03 Maize is a globally important crop mainly utilized as feed food and raw material for diverse industrial applications Among cereals it occupies third place after rice and wheat and is a staple food for a large segment of population worldwide particularly in the Asian as well as African countries This monogram discusses various aspects of nutritional quality of maize such as quality protein maize which has been considered as most significant discovery in enhancing nutritional quality of cereals in terms of increasing the concentration of essential amino acids The biochemistry of starch which is an important industrial product of maize has been discussed in detail Further the role of maize oil which is highly regarded for human consumption as it reduces the blood cholesterol concentration has also been elaborated Naturally maize is a rich source of carotenoids such as beta carotene zeaxanthin lutein cryptoxanthin which have highly diverse health benefits ranging from maintaining normal vision to lowering of oxidative stress The need for biofortification of maize for provitamin A carotenoids and their role in alleviating vision impairments have also been discussed The effect of various biotic and abiotic stresses particularly carbon dioxide and temperature on quality has been discussed thoroughly Many value added products as well as fermented foods that have been produced from maize which is consumed in different forms worldwide are also discussed The aspects related to the maize application as fodder and as a source of malting have also been covered concisely Overall the book provides complete information about various quality aspects of maize The various stakeholders such as maize researchers extension specialists students teachers as well as farmers will be immensely benefitted from this monogram

Sesame: Sustainable Production and Applications Sapna Langyan, Pranjal Yadava, Rashmi Yadav, Rakesh Bhardwaj, 2025-04-18 This edited book systematically discusses the advances in biotechnology agrotechnology and food technology in shaping sesame production cultivation and uses to meet the future needs Sesame *Sesamum indicum* is the oldest oilseed crop known to humans It has been recognized as one of the most nutritious and health supportive crops with several applications in food cosmetics and health products A wide variety of sesame is grown throughout the world primarily in Asia and Africa Its seed and seed oil is being used widely in diverse cuisines It is also used in cosmetic and health products Advances in biotechnology agrotechnology and food technology in redefining sesame production and uses are of great importance Various new advanced technologies have been employed to develop high yielding and disease resistant sesame varieties for better cultivation seed production and for utilization of seeds and seed oil in a lot of foods cosmetic and health products This book provides an overview of different advanced technologies their mechanisms and their effect on the quality of the sesame crop and sesame seeds oil The book also emphasizes the assessment of advanced technology on its limitations and advantages This book offers the latest research on techniques applications and challenges of producing quality sesame crop with recommendations towards sustainable agriculture The book is a valuable resource for students researchers and scientists

working in the field of sesame production and applications Industry experts involved in development and management of sustainable production technologies will also find the book beneficial

Unit Operations in Food Grain Processing C.K. Sunil,K.A. Athmaselvi,N. Venkatachalapathy,C. Anandharamakrishnan,V.M. Balasubramaniam,2024-05-09 Unit Operations in Food Grain Processing covers theory and principles as well as best practices in cleaning grading drying storage milling handling transportation and packaging of grains The book begins with an overview of grain types grain structure and composition and engineering properties of different grains It then moves into the aspects of processing It reviews best practices in processing rice wheat pulses oilseeds millets and pseudocereals The book discusses value addition methods products of grains and waste and by product utilization from grains These discussions outline equipment and machinery needed different methods of operations for various grains and advances in grain processing as well as grain waste and by product utilization The book has 18 chapters in total Each chapter discusses principles design illustrations advances and challenges to aid in understanding Therefore this book is a valuable reference material for academicians researchers consultants manufacturers and practitioners in the field of food processing Presents different methods of operations and the latest advances in grain processing Explores value addition grain waste and by product utilization from grains Covers all the unit operations followed in grains processing theory and principle Covers application of emerging technologies in grain processing

A-Z of Biorefinery Nuttha Thongchul,Antonis Kokossis,Suttichai Assabumrungrat,2021-11-19 A Z of Biorefinery A Comprehensive View provides a comprehensive book that highlights and illustrates important topics relating to biorefineries including associated theory current and future research trends available techniques and future challenges This book will benefit a wide range of audiences including students engineers scientists practitioners and those who are keen to explore more on biorefinery Sections cover the availability of current technologies constraints market trends recent system developments and the concepts that enable modern biorefineries to utilize all kinds of biomass This book is an essential resource for students scientists engineers and practitioners working in industry and academia Covers the most important topics relating to biorefineries Provides related definitions theories overviews of methods applications and important references Offers perspectives and concise reviews for each section Includes complete design case studies with tutorials

Non-Conventional Starch Sources José Manuel Lorenzo,Sneh Punia Bangar,2023-09-29 Non Conventional Starch Sources Properties Functionality and Applications presents the use of non conventional unutilized and underutilized sources to isolate characterize and functionalize starches Specific attention is paid to the sources application in foods as well as their incorporation into packaging through films and coatings Broken into seven sections this book addresses sources from fruit seeds cereals and millets pseudo cereals seeds roots and tubers rhizome and legumes Food scientists technologists and students and researchers studying related fields will benefit from this important reference Presents chapters with a set of specific sections including an introduction chemical derivatization of natural products current applications pharmacological

activities of semisynthetic derivatives and references Covers fruit seeds such as avocado litchi mango jackfruit loquat longan and tamarind Addresses adlay starch sorghum starch finger millet starch pros millet starch fox millet starch and kodo millet starch as well as that from amaranth quinoa and buckwheat Explores starches from annatto lotus and bamboo seeds as well as starches from roots and tubers including yams and kudzu Considers starch from ginger and turmeric as well as that from legumes including faba and kidney beans common beans chickpeas and peas

Advances in Food Bioproducts and Bioprocessing Technologies Monica Lizeth Chavez-Gonzalez, Nagamani Balagurusamy, Cristobal Aguilar, 2019-10-16 The book explores and exploits the synergy and boundary between biotechnology bioprocessing and food engineering Divided into three parts Advances in Food Bioproducts and Bioprocessing Technologies includes contributions that deal with new developments in procedures bioproducts and bioprocesses that can be given quantitative expression Its 40 chapters will describe how research results can be used in engineering design include procedures to produce food additives and ingredients and discuss accounts of experimental or theoretical research and recent advances in food bioproducts and bioprocessing technologies

Maize Sukhvinder Singh Purewal, Pinderpal Kaur, Sneha Punia Bangar, Kawaljit Singh Sandhu, Surender Kumar Singh, Maninder Kaur, 2022-09-30 Maize is widely cultivated throughout the world due to its high yield potential The economic and nutritional value of maize grains is associated with its starch content protein fibre bioactive compounds and minerals Maize is used worldwide in the preparation of health benefiting antioxidant rich fortified products and dietary supplements Maize Nutritional Composition Processing and Industrial Uses explores the status of maize in terms of its production nutritional composition biofortification processing methods health benefits maize based products and storage This book also emphasizes the key features of maize grains which make it an ideal crop for industrial use It covers all aspects of recent research about the maize and provides updated information Features Discusses information related to chemistry of maize components Highlights comprehensive information on the physical and milling properties of maize Explains the structure functional and antioxidant properties of maize flour Provides the latest scientific development in the modification of maize starch Explores various maize based food products and their storage Examines maize protein scenarios and quality improvement through bio fortification In depth information is provided regarding various health benefiting nutrient components of maize flour offering meaningful information for product formulation This book unfolds the potential of maize grains for industrial use

Integrated Pest Management in Diverse Cropping Systems Devendra Pal Singh, 2023-02-01 Climate change has intensified in recent decades which has affected crop production as well as facilitated the emergence of new diseases and insect pests causing serious threats to agriculture Farmers have mostly taken a crop based approach to insect pest management IPM the authors of this new volume however take the unique approach that IPM based on specific cropping systems is more efficient resulting in reduced cultivation costs increased yield and profitability and decreased residue from crop produce and products This volume presents the results of research done by crop protection

scientists on integrated pest management in diverse cropping systems based on rice wheat maize pulses food legumes oilseeds groundnut potato and other horticulture crops With chapters written by well known and experienced scientists in their fields this volume provides in depth knowledge on integrated pest management in conjunction with an array of specific cropping systems taking into consideration all the elements including the crops crop sequences spatial and temporal aspects of managing an agricultural system and other aspects This volume will be valuable for entomologists plant pathologists and agronomists as well as for farmers both small and industrial sized agricultural extension centers faculty and students and many others involved with crop cultivation Food Microbiology and Biotechnology Guadalupe Virginia

Nevárez-Moorillón, Arely Prado-Barragán, José Luis Martínez-Hernández, Cristobal Noé Aguilar, 2020-05-27 Food Microbiology and Biotechnology Safe and Sustainable Food Production explores the most important advances in food microbiology and biotechnology with special emphasis on the challenges that the industry faces in the era of sustainable development and food security problems Chapters cover broad research areas that offer original and novel highlights in microbiology and biotechnology and other related sciences The authors discuss food bioprocesses fermentation food microbiology functional foods nutraceuticals extraction of natural products nano and micro technology innovative processes bioprocesses for utilization of by products alternative processes requiring less energy or water among other topics The volume relates some of the current developments in food microbiology that address the relationship between the production processing service and consumption of foods and beverages with the bacteriology mycology virology parasitology and immunology Demonstrating the potential and actual developments across the innovative advances in food microbiology and biotechnology this volume will be of great interest to students teachers and researchers in the areas of biotechnology and food microbiology

Integrated Pest Management in Tropical Regions Carmelo Rapisarda, Giuseppe E Massimino Cocuzza, 2017-12-11 This book provides up to date and comprehensive coverage of the research and application of Integrated Pest Management IPM in tropical regions The first section explores the agro ecological framework that represents the foundations of IPM in addition to emerging technologies in chemical and biological methods that are core to pest control in tropical crops The second section follows a crop based approach and provides details of current IPM applications in the main tropical food crops such as cereals legumes root and tuber crops sugarcane vegetables banana and plantain citrus oil palm tea cocoa and coffee and also fibre crops such as cotton and tropical forests Serotonin and Melatonin Gokare A. Ravishankar, Akula Ramakrishna, 2016-11-18 Serotonin and Melatonin Their Functional Role in Plants Food Phytomedicine and Human Health highlights the significance of the plant sources of serotonin and melatonin in the fields of medicine agriculture and food science Over the last few decades an enormous amount of research data has been generated on these two neurotransmitters plant signalers This book covers topics regarding the occurrence of serotonin and melatonin in medicinal plants and food value plants with their implications for human health the role of serotonin and melatonin in plant growth development

functions of melatonin and serotonin in the environmental adaptation of plants and the implications of these molecules in human disorders and treatments This volume should appeal to scientists and other professionals engaged in basic and applied research on the relevance of serotonin and melatonin to plants animals and humans Features Reviews the global scientific literature and the experimental data of the authors on the occurrence of serotonin and melatonin in medicinal and food value plants and its implications for human health Explains in detail the role of serotonin and melatonin in plant growth development Helps in understanding the complex functions of melatonin and serotonin in the environmental adaptation in plants Discusses the importance of the development of transgenic plants with high amounts of serotonin and melatonin Describes the current understanding of serotonin and melatonin in human disorders and also their relevance in the treatment of specific health conditions Written by acknowledged experts from across the world

Resistant Starch: Advances and Applications in Nutrition for Disease Prevention Hongliang Zeng,Xianyang Bao,Hongmin Dong,2025-08-11 Resistant starch RS is a type of dietary fiber that has garnered significant attention for its potential health benefits and applications in nutrition It resists digestion in the small intestine and reaches the large intestine where it undergoes fermentation by gut microbiota This process produces various beneficial byproducts such as short chain fatty acids SCFAs which have been linked to numerous health promoting effects The unique properties of resistant starch make it an intriguing field of research particularly regarding its potential role in disease prevention This special issue aims to explore the advances and applications of resistant starch in nutrition for disease prevention It seeks to gather the latest research on various aspects of resistant starch including its types and sources digestive fate and metabolic effects gut microbiota modulation and its potential role in preventing diseases such as obesity diabetes cardiovascular diseases and cancer Potential Topics of Interest including but not limited to 1 Types and Sources of Resistant Starch Classification and characterization of different types of RS Food sources rich in RS and their nutritional profiles Novel sources or innovative methods for increasing RS content in food products 2 Digestive Fate and Metabolic Effects of Resistant Starch Mechanisms of RS digestion and fermentation in the gastrointestinal tract Metabolic effects of RS on glycemic control lipid metabolism and energy balance Effects of RS on postprandial glucose and insulin responses 3 Gut Microbiota Modulation by Resistant Starch Influence of RS on gut microbiota composition and diversity Production of short chain fatty acids SCFAs by gut microbiota from RS fermentation Interactions between RS gut microbiota and host health 4 Resistant Starch and Disease Prevention Epidemiological studies linking RS consumption to the prevention of obesity diabetes cardiovascular diseases and colorectal cancer Mechanisms underlying the protective effects of RS in disease prevention Clinical trials evaluating the efficacy of RS interventions in disease management and prevention

Pigmented Cereals and Millets Sneh Punia Bangar,Sajid Maqsood,Anil Kumar Siroha,2023-02-17 In recent years consumers have been concentrating on the health benefits and nutrition from food to preserve a healthy lifestyle They are looking for colorants derived from natural sources to enhance the nutritional and

antioxidant value of foods Coloured cereals wheat rice barley oat maize sorghum and millets contain many phytochemicals including anthocyanins and carotenoids associated with numerous health benefits This book presents a comprehensive overview of the bioactive potential food applications and health benefits of coloured cereal grains Novel approaches to the integration of coloured grain into food in the food processing industries are included reviewing high value pigments in the bran layer which can easily be extracted and utilized as functional foods and natural colorants Aimed at researchers carrying out innovative studies food regulatory and safety authorities and food processing industries who are trying to minimize synthetic food colorants and dyes this book provides a novel approach to the use of substitute synthetic dyes which can improve the nutritional value appearance texture flavour and storage properties of food products *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 *Maize Breeding* Sain Dass, Chikkappa Gangadhar Karjagi, Deepak Kumar Singh, Madhulika Singh, 2025-09-27 This comprehensive volume offers an in depth exploration of maize one of the world s most vital cereal crops The book covers a wide range of topics including maize genetics and breeding physiology crop production protection seed production and value addition It integrates current knowledge across key domains such as agronomy pathology entomology biotechnology biochemistry and farm mechanization with special emphasis on different maize variants Unlock the full potential of one of the world s most vital crops with Production Protection and Management for Optimization of Natural Resources This volume brings together cutting edge research and practical insights across every critical domain of maize production and improvement With in depth chapters on genetics and breeding biotechnology physiology agronomy

genomics mechanization biochemistry entomology pathology seed production and allied chapters on speciality corn and value added products this book serves as an essential resource for researchers students policymakers extension workers farmers and agri professionals seeking a holistic understanding of maize as both a crop and a commodity Presented in accessible language with visual aids where needed the book guides readers through every stage of the crop cycle from seed to seed while emphasizing best practices climatic requirements and sustainable management Approximately 80% of maize is used as animal feed or for human consumption making it a cornerstone of global food security To ensure optimal productivity it is essential to understand the crop in depth and adhere to appropriate management practices and environmental requirements such as temperature and humidity

Whole Grains Shabir Ahmad Mir, Annamalai Manickavasagan, Manzoor Ahmad Shah, 2019-03-04 Whole grains play an important role in healthy diets due to their potential role in minimizing the risk factors for several diseases Thus the need for a comprehensive work that addresses all aspects of whole grain technology including processing product development and nutrition values This book covers the technological nutritional and product development aspects of all whole grains including wheat rice barley rye sorghum millet maize and oats among others The book will review and summarize current knowledge in whole grains with the intent of being helpful to the food industry in the development of high quality whole grain products Key Features Covers the technology for whole grain processing Promotes the utilization of whole grain products Provides the information about the nutritional components of whole grains Explores the health benefits of whole grains Presents the latest trends and safety concerns of whole grains The chapters include amaranth barley brown rice buckwheat maize millets oats quinoa rye sorghum and wheat In addition current trends in processing technology and product development for whole grains are explained in detail in a separate chapter The last chapter deals with the food safety management of whole grains Contributions from global experts in this field make this book a key reference material for all aspects of whole grains This book is suitable for students scientists and professionals in food science food engineering food technology food processing product development food marketing nutrition and other health sciences

Cereals and Nutraceuticals Joginder Singh, Sawinder Kaur, Prasad Rasane, Jyoti Singh, 2024-08-29 This book is focused on the production cultivation processing composition nutritional value value addition health implications limitations and safety of nutricereals with an emphasis on their functional significance With changing food habits and increasing health concerns consumers around the world are opting for a more nutritious diet than that was consumed until recently Nutricereals are now becoming a food of choice for many and newer products are being developed using them Thus a better understanding of these valuable crops is becoming essential Researchers and scientists around the world have now turned their attention to nutricereals as a cheaper and most important solution to nutritional deficiencies Processing of these cereals is matter of advanced research in recent times to make it suitable and palatable for human consumption and taste and hence high emphasis is given on processing and value addition of these cereals A comprehensive account of these important aspects is highly required The

book covers specific aspects of the nutriceals of consumption pattern and acceptance and the cultivation practices and health benefits associated with their consumption Considerations on processing value addition and safety associated with various nutriceals and current and future challenges and the opportunities for its utilization are highlighted in the book This book forms an important resource on nutriceals for food technologists and food scientists **Starch in Food** Lars Nilsson,2024-05-15 Starch in Food Structure Function and Applications Third Edition is now fully updated with eleven new chapters covering hot areas for starch applications such as starch based pickering emulsifiers starch for structuring gluten free bread products and starch microspheres for encapsulation of probiotic bacteria Sections illustrate how plant starch can be analyzed and modified including chapters on analysis of starch molecular structure molar mass and size the relationship between structure and digestion of starch sources of starch including new chapters on cereal root and tuber and pulse starches and starch applications with a new chapter on utilizing starches in product development in baked products and in gluten free bread Starch selection is one of the most complex areas for a product developer yet starch is key to solving formulation challenges when developing products to meet many of the emerging consumer trends This book aids the end user on acquiring knowledge on fundamental starch aspects such as granular and molecular structure and properties analysis biosynthesis and general functionality of starch in foods Thoroughly revised edition bringing updated and new chapters covering the fundamentals of starch applications Explores starch aspects such as granular and molecular structure and properties analysis biosynthesis and general functionality of starch in foods Offers insight into how starch related formulation challenges can be addressed **Agroclimatology** Jerry L. Hatfield,Mannava V. K. Sivakumar,John H. Prueger,2020-01-22 Can we unlock resilience to climate stress by better understanding linkages between the environment and biological systems Agroclimatology allows us to explore how different processes determine plant response to climate and how climate drives the distribution of crops and their productivity Editors Jerry L Hatfield Mannava V K Sivakumar and John H Prueger have taken a comprehensive view of agroclimatology to assist and challenge researchers in this important area of study Major themes include principles of energy exchange and climatology understanding climate change and agriculture linkages of specific biological systems to climatology the context of pests and diseases methods of agroclimatology and the application of agroclimatic principles to problem solving in agriculture *Developing Sustainable and Health-Promoting Cereals and Pseudocereals* Marianna Rakszegi,Maria Papageorgiou,João Miguel Rocha,2023-03-27 Developing Sustainable and Health Promoting Cereals and Pseudocereals Conventional and Molecular Breeding reviews the most recent developments in the fields of cereal and pseudocereal breeding with particular emphasis on the latest biotechnological techniques likely to lead to breakthrough changes in plant breeding The book provides comprehensive information on the use of genetic resources or pre breeding activities to improve health related properties of cereals and pseudocereals The text also explores targeted field management practices and the latest in biotechnological methodologies and offers a cohesive

overview necessary for understanding the potential impacts and benefits of improved production of cereals and pseudocereals with high nutritional value Includes coverage of cereals and pseudocereals in a single comprehensive volume Focuses on sustainable circular economy including assurance of food safety quality and health benefits Examines breeding to attain robust cereal and pseudocereals with higher nutritional value and adapted to specific regions climate change and global warming

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