

Encapsulation technologies and delivery systems for food ingredients and nutraceuticals

Edited by Nissim Carti and D. Julian McClements



Sajad Ahmad Wani, Mohamed S. Elshikh, Mona S. Al-Wahaibi, Haroon Rashid Naik

Encapsulation Technologies and Delivery Systems for Food Ingredients and Nutraceuticals Nissim Garti, D. Julian McClements, 2012-10-19 Improved technologies for the encapsulation protection release and enhanced bioavailability of food ingredients and nutraceutical components are vital to the development of future foods Encapsulation technologies and delivery systems for food ingredients and nutraceuticals provides a comprehensive guide to current and emerging techniques Part one provides an overview of key requirements for food ingredient and nutraceutical delivery systems discussing challenges in system development and analysis of interaction with the human gastrointestinal tract Processing technologies for encapsulation and delivery systems are the focus of part two Spray drying cooling and chilling are reviewed alongside coextrusion fluid bed microencapsulation microencapsulation methods based on biopolymer phase separation and gelation phenomena in agueous media Part three goes on to investigate physicochemical approaches to the production of encapsulation and delivery systems including the use of micelles and microemulsions polymeric amphiphiles liposomes colloidal emulsions organogels and hydrogels Finally part four reviews characterization and applications of delivery systems providing industry perspectives on flavour fish oil iron micronutrient and probiotic delivery systems With its distinguished editors and international team of expert contributors Encapsulation technologies and delivery systems for food ingredients and nutraceuticals is an authoritative guide for both industry and academic researchers interested in encapsulation and controlled release systems Provides a comprehensive guide to current and emerging techniques in encapsulation technologies and delivery systems Chapters in part one provide an overview of key requirements for food ingredient and nutraceutical delivery systems while part two discusses processing technologies for encapsulation and delivery systems Later sections investigate physicochemical approaches to the production of encapsulation and delivery systems and review characterization and applications of delivery systems

Bioactive Delivery Systems for Lipophilic Nutraceuticals Ming Miao.Long Chen, David McClements, 2023-06-26 There is growing interest in the food supplements cosmetics and pharmaceutical industries in improving the healthiness of their products by incorporating lipophilic bioactive substances like oil soluble vitamins A D and E omega 3 fatty acids and nutraceuticals carotenoids curcuminoids and flavonoids However there are many challenges that need to be overcome due to their poor water solubility chemical stability and bioavailability For this reason there is interest in the development of effective encapsulation technologies to increase the efficacy of lipophilic bioactives This book reviews the encapsulation systems currently available for delivering lipophilic bioactives including their preparation functionality and application range including nanoemulsions emulsions Pickering emulsions HIPEs microgels organogels and liposomes Chapters 1 2 review the biological activity of delivery systems and lipophilic bioactives Chapters 3 5 describe the materials and preparation methods used to assemble delivery systems Chapters 6 17 focus on the formation and application of different kinds of delivery systems Chapter 18 discusses future trends in the

development of bioactive delivery systems Edited and authored by world renowned scholars the book provides a state of the art overview of the design fabrication and utilization of delivery systems for bioactives that will be useful for academic government and industrial scientists in fields such as pharmaceuticals cosmetics agriculture chemical engineering nutrition Nutraceutical Delivery Systems Pankaj V. Dangre, Debarshi Kar Mahapatra, 2022-08-18 This book highlights and foods recent innovative work in nutraceutical delivery systems focusing on strategies and approaches for delivering maximum health benefits from foods It presents recent research oriented work from diverse global perspectives on isolation techniques for nutraceutical components phytosomes liposomes solid dispersions micelles self emulsifying drug delivery systems microemulsions solid lipid nanoparticles polyelectrolyte complexes oral delivery polymeric nanoparticles and more The book begins with an overview of recent facts and diverse perspectives on the use of nutraceuticals in medicine and proceeds to discuss recent techniques in isolation of nutraceuticals from plants and in solubility enhancement It looks at innovations and advances in nanoparticles based nutraceutical delivery such as in solid lipid nanoparticles SLNs fabrication methods of therapeutic nanoparticles and polymeric nanoparticles based nutraceutical delivery system It also discusses vesicular delivery systems and biphasic systems for nutraceutical applications. The book also looks at the challenges in oral delivery and the latest taste masking techniques Nanoparticle- and Microparticle-based Delivery Systems David Julian McClements, 2014-08-12 This book covers the formation properties characterization and application of different kinds of colloidal delivery systems that can be utilized within the food industry including surfactant based emulsion based and biopolymer based systems. The book takes a traditional colloid science approach to the subject with particular emphasis on the practical aspects of formulation of particulate and emulsion based delivery systems for pharmaceutical and food applications It covers active ingredients drawn from proteins carbohydrates and lipids as well as mineral based active ingredients The book describes particle characteristics and explains mechanical particle fabrication methods Handbook of Encapsulation and Controlled Release Munmaya Mishra, 2015-12-01 The field of encapsulation especially microencapsulation is a rapidly growing area of research and product development The Handbook of Encapsulation and Controlled Release covers the entire field presenting the fundamental processes involved and exploring how to use those processes for different applications in industry Written at a level comp **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 Applications of Encapsulation and Controlled Release Munmaya K. Mishra, 2019-09-18 The field of encapsulation especially microencapsulation is a rapidly growing area of research and product development Applications of Encapsulation and Controlled Release offers a broad perspective on a variety of applications and processes including up to date research figures tables illustrations and references Written at a level comprehensible to non experts it is a rich source of technical information and current practices in research and industry Functional Foods Sajad Ahmad Wani, Mohamed S. Elshikh, Mona S. Al-Wahaibi, Haroon Rashid Naik, 2023-11-06 It is reported Functional foods are highly nutritious and associated with a number of powerful health benefits They may protect against disease prevent nutrient deficiencies and promote proper growth and development Functional Foods Technological Challenges and Advancement in Health Promotion presents information related to bioactive compounds present in the functional foods derived from fruits and vegetables cereals and pulses dairy and meat herbs and spices and other foods It describes novel techniques and methodologies used in the extraction isolation encapsulation identification and characterization of bioactive compounds Key Features Covers the most recent research related to the bioactive compounds present in the functional foods Presents the latest information on extraction isolation encapsulation identification and characterization Discusses formulation challenges with an emphasis on stability and safety evaluations of functional foods Finally it includes substantial and scientific research and innovation for new product development with health benefits This book will serve as a valuable resource for researchers academicians and students interested in many aspects of functional foods Microencapsulation in the Food Industry Robert Sobel, 2014-06-30 Microencapsulation is being used to deliver everything from improved nutrition to unique consumer sensory experiences It's rapidly becoming one of the most important opportunities for expanding brand potential Microencapsulation in the Food Industry A Practical Implementation Guide is written for those who see the potential benefit of using microencapsulation but need practical insight into using the technology With coverage of the process technologies materials testing regulatory and even economic insights this book presents the key considerations for putting microencapsulation to work Application examples as well as online access to published and issued patents provide

information on freedom to operate building an intellectual property portfolio and leveraging ability into potential in licensing patents to create produce pipeline This book bridges the gap between fundamental research and application by combining the knowledge of new and novel processing techniques materials and selection regulatory concerns testing and evaluation of materials and application specific uses of microencapsulation Practical applications based on the authors more than 50 years combined industry experience Focuses on application rather than theory Includes the latest in processes and methodologies Provides multiple starting point options to jump start encapsulation use Nanotechnology in Nutraceuticals Shampa Sen, Yashwant Pathak, 2016-10-14 While nutraceuticals were verified to be expedient they often lack stability bioavailability and permeability and nano nutraceuticals are being developed to afford a solution to the problem Nanotechnology in Nutraceuticals Production to Consumption delves into the promises and prospects of the application of nanotechnology to nutraceuticals addressing concepts techniques and production methods Nutraceuticals retain less stability efficacy and bioavailability when entering the human body To overcome such problems nanotechnology shows promise when applied as a tool to improve the quality and stability of nutraceuticals This book discusses metallic nanoparticles and their applications in the food industry with specific application to nutraceuticals It includes detailed discussion on potential functional properties of nutraceuticals with regard to antimicrobial activity anti inflammatory activity and anti cancer activity Since nanoparticles can be toxic past a certain limit implementing nanotechnology under thoughtful regulations is considered critical The book addresses these issues with chapters covering the principles for the oversight of nanotechnologies and nanomaterials in nutraceuticals the implications of regulatory requirements the ethics and economics of nano nutraceuticals and consumer acceptance of nanotechnology based foods Thermal and Nonthermal Encapsulation Methods Magdalini Krokida, 2017-09-27 Encapsulation is a topic of interest across a wide range of scientific and industrial areas from pharmaceutics to food and agriculture for the protection and controlled release of various substances during transportation storage and consumption Since encapsulated materials can be protected from external conditions encapsulation enhances their stability and maintains their viability This book offers a comprehensive review of conventional and modern methods for encapsulation It covers various thermal and nonthermal encapsulation methods applied across a number of industries including freeze drying spray drying spray chilling and spray cooling electrospinning electrospraying osmotic dehydration extrusion air suspension coating pan coating and vacuum drying The book presents basic fundamentals principles and applications of each method enabling the reader to gain extended knowledge The choice of the most suitable encapsulation technique is based on the raw materials the required size and the desirable characteristics of the final products

<u>Nanotechnology in the Food Industry</u> Sukhvinder Singh Purewal, Avneet Kaur, 2024-10-21 Unlock the mysteries of nanotechnology s transformative role in the food industry with Nanotechnology in the Food Industry Applications Recent Trends and Future Perspectives Embark on a journey through the latest research and developments in nanomaterials

synthesis characterization and manipulation techniques aimed at aligning with consumer expectations Discuss the fundamental principles underlying nanotechnology and nanomaterials illuminating their pivotal significance in shaping the future of food production and consumption as well as applications of nanotechnology in food industry from revolutionizing packaging and ensuring food safety to enhancing consumer perception and extending shelf life Key Features Provides comprehensive information on different aspects of nanotechnology within the food industry Presents a wealth of new facts on utilizing the potential of nanotechnology for food materials Reflects the contemporary landscape of nanotechnology in the food sector With a focus on recent advances and future prospects this book provides detailed discussions on nanosensors nanoparticles in food formulations and strategies for shelf life enhancement It is an indispensable resource for students researchers and scientists seeking to deepen their understanding of nanotechnology s role in shaping the future of food

Handbook of Nutraceuticals and Natural Products Sreerag Gopi, Preetha Balakrishnan, 2022-06-29 An essential treatment of nutraceuticals and natural products their preparation techniques and applications In Handbook of Nutraceuticals and Natural Products From Concepts to Application a team of distinguished researchers delivers a one stop resource describing the preparation techniques and functional uses of nutraceuticals and natural products with a focus on the technologies involved The book includes coverage of the biological medicinal and nutritional properties and applications of functional foods as well as the advanced technologies used in the extraction and functionalization of nano components and the nanomaterial and nanochemical aspects of the products The authors discuss developmental research as well as user level benefits of nutraceuticals and natural products and thoroughly review the market analyses quality assurance processes and regulations relevant to nutraceuticals and natural products They also cover Thorough introductions to nutraceuticals functional foods liposomal technology prebiotics and lycopene and its active drug delivery Comprehensive explorations of nutraceutical compounds from marine microalgae and poly lysine as an antimicrobial agent Practical discussions of a nutraceuticals approach to treating cancer cachexia and early life nutrition and epigenetics In depth examinations of encapsulation and delivery of nutraceuticals and bioactive compounds by nanoliposomes and tocosomes as promising nanocarriers Perfect for chemists biochemists food scientists and materials scientists Nutraceuticals and Natural Products From Concepts to Application will also earn a place in the libraries of medical scientists working in academia or industry as well as nutritionists dietitians and biochemistry graduate students studying nutraceuticals **Science and Applications of** Nanoparticles Wagar Ahmed, Ehsan Nourafkan, 2022-12-23 Nanoparticles have emerged as important players in modern techniques having applications from medicine and drug delivery to textiles and agriculture Nanoscale materials are already integrated into our everyday lives in various forms such as sunscreen lotions containing nanoparticles dirt resistant glass with nanocoatings and nanodrugs This book reviews the recent developments in the applications of nanoscale materials in drug delivery agriculture cosmetics textiles and photonics It also covers other interesting topics in detail such as

nanoencapsulation nanoparticle formation and surface functionalization of nanomaterials It is a valuable resource for practical use and offers up to date information given by specialists in each field It is a useful reference for materials scientists chemical engineers working in R D and academia and inquisitive readers who want to learn more about the applications of nanoparticles and nanomaterials in different fields Natural Sources, Physicochemical Characterization and Applications Constantin Apetrei, 2016-11-30 This volume presents different aspects related to bioactive compounds starting with their natural state in raw sources physicochemical characterization and employment in pharmacy and medicine The volume is divided into three parts The first part describes the chemicals structure of bioactive compounds from different natural sources such as olive oils wines and medicinal plants Special attention has been given to identifying the bioactive composition within variations of these natural sources for example extra virgin ordinary or lampante olive oils The second part of the volume presents the principal methods used for detecting identifying and quantifying bioactive compounds Emphasis is given to the use of different types of sensors or biosensors and multisensor systems in combination with analytical techniques The final part explains the principal methods for protection of bioactive compounds and the implication of bioactive compounds in pharmacy This volume is a useful quide for novice researchers interested in learning research methods to study bioactive compounds Frontiers in Bioactive Compounds brings edited reviews on the analysis and characterization of natural compounds of medicinal interest Each volume covers useful information on a variety of natural sources as well as analytical techniques This series is essential reading for analytical and medicinal chemists as well as professionals involved in natural and pharmaceutical product research and development **New Polymers for** Encapsulation of Nutraceutical Compounds Jorge Carlos Ruiz Ruiz, Maira Rubi Segura Campos, 2017-01-24 The incorporation of functional ingredients in a given food system and the processing and handling of such foods are associated with nutritional challenges for their healthy delivery The extreme sensitivity of some components cause significant loss of product quality stability nutritional value and bioavailability and the overall acceptability of the food product Consequently encapsulation has been successfully used to improve stability and bioavailability of functional ingredients Encapsulation is one example of technology that has the potential to meet the challenge of successfully incorporating and delivering functional ingredients into a range of food types The book will cover topics about 1 Characterization of novel polymers and their use in encapsulation processes 2 Stability of nutraceutical compounds encapsulated with novel polymers 3 Application of encapsulated compounds with novel polymers in functional food systems This book provides a detailed overview of technologies for preparing and characterisation of encapsulates for food active ingredients using modified polymers The use of modified polymers as coating materials it is a field that still needs study The book is aimed to inform students and researchers in the areas of food science and food technology and professionals in the food industry Advances in Food Process Engineering Megh R. Goyal, N. Veena, Ritesh B. Watharkar, 2023-05-04 This new volume highlights a selection of

novel applications for food processing food preservation and food decontamination methods It discusses the principles benefits and techniques used and presents recent developments and applications of ultrasonication It explores supercritical fluid extraction and supercritical fluid chromatography extrusion technology advanced drying and dehydration technologies and encapsulation methods as important tools in the processing of food It addresses the basic membrane processing technologies along with their advantages and disadvantages. The volume presents the application and use of mathematical models for measuring and regulating fermentation procedures It also provides an understanding of how the hydration kinetics of grains can help in optimization and scaling of processes on a large industrial scale Topics on decontamination methods for foods are included such as an overview of concepts basic principles potential applications and prospects and limitations of cold plasma technology and irradiation in the food processing sector **Engineering Foods for Bioactives** Stability and Delivery Yrjö H. Roos, Yoav D. Livney, 2016-12-01 This book introduces recovery and stabilization of common bioactive materials in foods as well as materials science aspects of engineering stable bioactive delivery systems The book also describes most typical unit operations and processes used in recovery and manufacturing of food ingredients and foods with stabilized bioactive components The 15 chapters of the book discuss in detail substances that need to be protected and delivered via foods and beverages to achieve good stability bioavailability and efficacy Dedicated chapters present current and novel technologies used for stabilization and delivery of bioactive components The material included covers formulation stability digestive release bioaccessability and bioavailability. The text features a special emphasis on the materials science and technological aspects required for stabilization and successful production of foods with bioactive components Consumer demand for healthier yet satisfying food products is posing increasingly tough challenges for the food industry Scientific research reveals new bioactive food components and new functionalities of known components Food materials science has also developed to a stage where food materials can be designed and produced to protect sensitive components for their delivery in complex food products Such delivery systems must meet high safety and efficacy requirements and regulations as well as economic viability criteria and consumer acceptance Flavor Development for Functional Foods and Nutraceuticals M. Selvamuthukumaran, Yashwant V Pathak, 2019-09-23 In a finished nutraceutical product flavors play an integral role Flavor Development for Functional Foods and Nutraceuticals is about the crucial role added flavors play in any nutraceutical product It describes the various extraction techniques that are being adopted for manufacturing flavors from natural raw materials Yield and retention of aromatic components during several extraction methods and flavor encapsulation techniques for thermal degradable food components are discussed Advanced methods of flavor extraction techniques like supercritical C02 extraction are emphasized The safety and quality aspects of flavor incorporation in food processing industries are reviewed with respect to international regulations The importance of flavor in the nutraceuticals industry is also discussed In addition the book stresses the functional value and organoleptic acceptability towards product optimization formulation

Features Explains how flavors play an integral role in a finished nutraceutical product Describes the various extraction techniques that are being adopted for manufacturing flavors from natural raw materials Covers flavor encapsulation techniques for thermal degradable food components Provides an introduction to the history of how some natural flavor ingredients botanicals and extracts were used in ancient times in Ayurveda and herbal medicine This is an ideal reference book for the flavor chemists food scientists nutraceutical formulators and students and academicians who are working in the area of nutraceutical supplement and functional food development and provides very useful information to help them select appropriate flavors for their products Also available in the Nutraceuticals Basic Research Clinical Applications Series Flavors for Nutraceuticals and Functional Foods edited by M Selvamuthukumaran and Yashwant Pathak ISBN 978 1 1380 6417 1 Antioxidant Nutraceuticals Preventive and Healthcare Applications edited by Chuanhai Cao Sarvadaman Pathak Kiran Patil ISBN 978 1 4987 3703 6 Food By product Based Functional Food Powders edited by zlem Toku o lu ISBN 978 1 4822 2437 5

**Food Engineering** Murlidhar Meghwal, Megh R. Goyal, 2016-11-18 This new volume presents a selection of recent advances and emerging trends in food process engineering from several disciplines Exploring the key concepts of food engineering Food Engineering Emerging Issues Modeling and Applications presents the information in four parts Modeling in food engineering Research advances in food engineering Role of food engineering in human health Emerging issues and applications in food engineering

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