

Crystallization Processes In Fats And Lipid Systems

Hardback

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Lipid and Polymer-Lipid Systems
Development of Trans-free Lipid Systems and their Use in Food Products
The Bimolecular Lipid Membranes: a System
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Monocytogenes
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Lipid-Based Drug Delivery Systems
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an exploration of new and emerging techniques processes and applications in the behaviour crystallization and polymorphic transformations of fats and oils it presents research and information on advanced analytical tools computer modelling molecular structures mixing behaviour and interactions with seeding materials and surfactants the con

advances in biomembranes and lipid self assembly volume 41 highlights new advances in the

field with this new volume presenting interesting chapters written by an international board of authors provides the authority and expertise of leading contributors from an international board of authors presents the latest release in advances in biomembranes and lipid self assembly series

the renewed and increasing interest in lipid self assembly phase behaviour and interfacial properties can be related to both a much improved insight in biological systems and the applications of lipids in food and pharmaceutical industry in the latter the development of drug delivery systems based on lipids has become in focus amphiphilic systems comprise lipids surfactants as well as different types of polymers including block and graft copolymers research on biological amphiphiles has often been conducted separate from research on synthetic ones however in recent years a very fruitful convergence between the two fields has evolved these new perspectives on fundamental research and applications of lipids are discussed in these proceedings from an international symposium on lipid and polymer lipid systems october 2000 in chia laguna in italy a joint undertaking of prof maura monduzzi at cagliari university italy and camurus lipid research foundation lund sweden

the physical properties associated with the saturated and trans fats obtained through partial hydrogenation of vegetable oils phvos provide the solid fat content melting and textural properties that consumers require in food products like butter margarines vegetable creams spreads and confectionary fats however saturated and trans fats increase low density lipoprotein while trans fats also lower high density lipoprotein serum levels these indicators increase the risk of developing cardiovascular disease type ii diabetes stroke and have recently been associated with metabolic syndrome consequently regulatory agencies worldwide have passed legislation restricting the addition of phvos and their derivatives i e shortenings to food products this has lead research groups worldwide to investigate different mechanisms to provide structural and physical properties to edible healthy unsaturated oils the overall objective is to achieve similar functional properties to those provided by phvos and shortenings to food products this book encompasses the work of leading researchers discussing from a scientific and technological perspective the latest and most innovative approaches to structure edible oils without the use of trans fats additionally the authors discuss practical uses and technical limitations associated with the use of structured edible oils in different food systems appealing to researchers and professionals working in lipid science food chemistry and fat metabolism it fills the gap in the literature for a book in this fast changing field

proceedings of the nato advanced study institute tabiano parma italy may 21 june 1 1979

this handbook provides the only complete survey of comparative physiology for both vertebrates and invertebrates at an advanced level appropriate for research scientists graduate students postdoctoral fellows and faculty it starts with a chapter on the adaptation and evolution of physiological characters followed by up to date chapters covering each organ system in detail the editors then discuss the comparative physiological strategies organisms

have developed for dealing with environmental challenges such as extreme temperatures extreme dryness seasonal and diurnal cycles and variations in salinity and osmolality of aqueous environments

this book appraises the role of lipid based drug delivery systems lbddss with respect to the bioavailability and controlled delivery of complex drug molecules for improving their clinical viability it covers the latest developments and advancements in the field of drug delivery and explores and compiles information on the current situation of lipid based formulations used as versatile excipients and all their possible routes to improve therapeutic benefits the book discusses novel formulations such as depot formulations micro and nanoemulsions solid lipid nanoparticles slns nanostructured lipid carriers nlcs liposomes nanoliposomes micelles nanosuspensions lipid implants and inserts and lipid nanotubes it presents preparation methods of lbddss and their physicochemical properties and portrays their various application angles and their impacts on drug conveyance frameworks when employed in vitro and in vivo the book is beneficial for researchers working on lipid based drug formulations as well as biological and translational drug delivery it is also a useful resource for course work of students of various academic degree programs such as pharmacy health sciences biotechnology and microbiology postgraduate and phd students and postdoctoral fellows researching on nanomedicine based drug delivery systems

the breadth and depth of knowledge of gums and stabilisers has increased tremendously over the last two decades with researchers in industry and academia collaborating to accelerate the growth gums and stabilisers for the food industry 11 presents the latest research in the field of hydrocolloids used in food bringing together contributions from international experts the first section of the book investigates the advances in structure determination and characterisation of hydrocolloids including the use of capillary electrophoresis later sections deal with rheological aspects of hydrocolloids in solutions and gels the application of hydrocolloids in real food systems and the interfacial behaviour and gelation of proteins a discussion of the influence of hydrocolloids on human health is also included researchers and other professionals in industry and academia particularly those involved directly with food science will welcome this title as a source of the very latest information

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