

Crystallization Processes In Fats And Lipid Systems Hardback

Liposomes, Lipid Bilayers and Model Membranes Lipid-Mediated Signaling Dietary Lipids
for Healthy Brain Function Food Lipids RNA Processing Molecular Imaging in
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Georg Pabst Eric J. Murphy Claude Leray Casimir C. Akoh Steve J. Higgins Najam
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Martinus Johannes Maria van de Ven (Physicist, Netherlands) John R. Johnston*

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as a result of their unique physical properties biological membrane mimetics such as liposomes are used in a broad range of scientific and technological applications liposomes lipid bilayers and model membranes from basic research to application describes state of the art research and future directions in the field of membranes which has evo

as the highly anticipated update to lipid second messengers crc press 1999 lipid mediating signaling is a current and comprehensive overview of research methods used in lipid mediated signal transduction pioneering experts provide a much needed distillation of a decade s worth of advances in research techniques that are pertinent in understand

research suggests that lipids including cholesterol fat soluble vitamins and some carotenoids participate in maintaining brain function this book focuses on how nutrients can improve brain development in early life leading to slower age related decline of higher brain functions chapters review how nutrients affect brain and cognitive development cognitive decline and age related disease as well as neurological mental and behavioral disorders

maintaining the high standards that made the previous editions such well respected and widely used references food lipids chemistry nutrition and biotechnology fourth edition provides a new look at lipid oxidation and highlights recent findings and research always representative of the current state of lipid science this edition provides 16 new chapters and 21 updated chapters written by leading international experts that reflect the latest advances in technology and studies of food lipids new chapters analysis of

fatty acid positional distribution in triacylglycerol physical characterization of fats and oils processing and modification technologies for edible oils and fats crystallization behavior of fats effect of processing conditions enzymatic purification and enrichment and purification of polyunsaturated fatty acids and conjugated linoleic acid isomers microbial lipid production food applications of lipids encapsulation technologies for lipids rethinking lipid oxidation digestion absorption and metabolism of lipids omega 3 polyunsaturated fatty acids and health brain lipids in health and disease biotechnologically enriched cereals with pufas in ruminant and chicken nutrition enzyme catalyzed production of lipid based esters for the food industry emerging process and technology production of edible oils through metabolic engineering genetically engineered cereals for production of polyunsaturated fatty acids the most comprehensive and relevant treatment of food lipids available this book highlights the role of dietary fats in foods human health and disease divided into five parts it begins with the chemistry and properties of food lipids covering nomenclature and classification extraction and analysis and chemistry and function part ii addresses processing and food applications including modification technologies microbial production of lipids crystallization behavior chemical interesterification purification and encapsulation technologies the third part covers oxidation measurements and antioxidants part iv explores the myriad interactions of lipids in nutrition and health with information on heart disease obesity and cancer with a new chapter dedicated to brain lipids part v continues with contributions on biotechnology and biochemistry including a chapter on the metabolic engineering of edible oils

this two volume set provides detailed practical guidance on all major aspects of rna processing each procedure is clearly explained so that the reader can follow all of the key stages of a successful experimental investigation

this book reflects the recent dramatic advances in the use of modern imaging techniques to visualize and quantify the various components of cell structure and cell functional activity in the nervous system readers will find detailed protocols for imaging neurotransmitter and receptor mrnas using radioactive and non radioactive in situ hybridization technology methods for visualizing transmitter and drug receptors using quantitative autoradiography sequence specific antibodies and immunocytochemistry are also clearly described plus the book covers the imaging of biological activity in living cells including methods of monitoring intracellular ph and calcium mobilization using selective ion sensitive dyes in conjunction with flow cytometry and video microscopy this is an essential guide for researchers wanting to exploit these powerful new techniques for their studies in neuropharmacology neuroanatomy neurogenetics neuropathology and pharmaceutical research receptors and receptor function in the nervous system they represent the state of the art for studying brain function and dysfunction in the laboratory it will be of major interest to neuroscientists and pharmacologists

the book covers comprehensively all current experimental procedures used in the research of the genetics and molecular biology of the yeast *saccharomyces cerevisiae* featuring detailed protocols and practical tips it guarantees easy access to a wide range of specialized topics within this rapidly advancing field internationally recognized experts present all methods currently in use discussing topics such as dna isolation cloning and expression vectors cosmid cloning construction and use of cDNA libraries plasmid shuffling and mutant isolation chapters on ty insertion mutagenesis high efficiency transformation cell free translation of mrnas ty virus like particles and applications to industrial strains of yeast are also included researchers in the fields of molecular biology genetics and biochemistry working with this yeast as well as professionals of the biotechnology industry will refer to this practical reference frequently

monthly references from world literature of books about 1000 journals and patents from 18 selected countries classified arrangement according to 18 sections such as milk and dairy products eggs and egg products and food microbiology author subject indexes

the first edition of this book was published in 1985 the content of the 4th edition reflects the enormous advances that have occurred since that time in the field of lipid biochemistry this publication is unique in that it represents a bridge between the superficial coverage of the lipid field found in basic biochemistry text books and the highly specialized material contained in scientific review articles and monographs the book is not a collection of exhaustive reviews but a current and readable summary of diverse aspects of lipids it is intended as an advanced and up to date textbook for teachers and students who are familiar with the basic concepts of lipid biochemistry and will also serve as a general reference book for scientists studying lipids lipoproteins and membranes

provides comprehensive coverage of the applications of gas chromatography an extremely important analytical tool this technique has wide applications in the chemical biological and clinical fields it is unsurpassed in its employment for the detection identification and quantification of trace substances in many fields the book clearly demonstrates the diversity of gas chromatography including its uses in petroleum exploration environmental analysis and toxicology with clear easy to follow protocols the book leads the inexperienced user through each technique step by step bringing together a wide range of areas for which gas chromatography is a valuable tool this volume will be indispensable for scientists and clinicians in fields ranging from environmental science to medicine

the field of behavioral neuroscience has seen a recent explosion of experimental

techniques adding to the sometimes bewildering array of strategies available to study behavior brain relationships behavioural neuroscience a practical approach available as a two volume set provides the most up to date comprehensive guide available for both choosing and successfully implementing appropriate methods in the laboratory each chapter includes detailed protocols that consider both theoretical and practical considerations volume i covers computerized methods of control as well as the more cognitive aspects of behavior including learning attention and memory volume ii focuses on methods for studying locomotor activity motivation and affect drug discrimination and signal detection the volumes will be of significant interest to a wide variety of students and researchers in neuroscience experimental psychology and pharmacology

introduction to the biosynthesis of molecules of biological importance is geared towards helping non specialist students understand and apply biochemical ideas through the liberal addition of examples applications exercises and questions throughout the text publisher description

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