

Subcellular Biochemistry

Volume 30

Fat-Soluble Vitamins

Edited by

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and

Valerian E. Kagan

Subcellular Biochemistry Vol 30 Fat Soluble Vitamins

Arturo Cuomo



Subcellular Biochemistry Vol 30 Fat Soluble Vitamins:

Fat-Soluble Vitamins Peter J. Quinn, Valerian E. Kagan, 1998-09-30 The subject for a volume on the fat soluble vitamins needs no justification considering the importance of this group of nutrients and the rate of expansion of our knowledge of its role in cell biology genetics and disease The level of our understanding has clearly moved from knowing what fat soluble vitamins do to how they perform their functions Hand in hand with a knowledge of their molecular mechanisms of action is the recognition that vitamins are used sparingly and regeneration processes operate in certain cases to recycle vitamins from their metabolites We have divided the volume into alphabetical sections beginning with vitamin A and the carotenoids through vitamins D E F and K and ending with coenzyme Q The contributors are all acknowledged experts in their particular fields and have made significant contributions to published research results All have worked assiduously to deliver the product of their labors on a restricted time scale and to provide the most up to date information on their respective topics We are truly grateful for their indulgence

Micronutrient Deficiencies in the First Months of Life F. M. Delange, K. P. West Jr., Keith P. West, 2003-07 In many parts of the world deficiencies in vitamins minerals and trace elements during the early months of life have dramatic consequences on the health and development of infants and young children The nutritional status of the mother greatly influences breast milk micronutrient levels and hence the nutritional status of the infant This publication written by leading investigators and clinicians offers an up to date review of micronutrient requirements and the assessment of micronutrient status of mothers and young infants followed by the epidemiology and health consequences of micronutrient deficiencies It also includes different prophylactic and therapeutic approaches such as the most recent research on both single and multiple micronutrient interventions during pregnancy lactation and early infancy This publication will be of great assistance to pediatricians clinical investigators health workers and nutritionists engaged in the prevention and treatment of micronutrient deficiencies

Food Byproducts Management and Their Utilization Ricardo Gómez-García, Ana A. Vilas-Boas, Débora A. Campos, Maria Manuela Pintado, Cristóbal Noé Aguilar, 2024-01-09 Food byproducts derived from industrial processing is a serious worldwide problem because it generates environmental pollution and results in significant food and economic losses from food waste This new volume shows how food byproducts can be value added renewable sources with the application of novel biotechnologies that avoid hazardous chemicals The volume discusses the importance of valorizing food wastes and illustrates their value added properties for industry It explains the significant progress in bioresources processing for compound extraction and production as well as the increasing interest of food ingredients development in which health care environment and economics play an essential part in biotechnological research It considers the waste byproducts of various crops such as tomato melon maize berries soybean coffee and their uses in the generation of health benefiting bioactive compounds The volume goes on to explore the various biotechnological strategies to extract produce and recover bioactive compounds along with the cost effectiveness of these methods Key

features Describes technological aspects in consolidated processing and bioprocessing of food by products Discusses technological aspects in biotechnology for food byproducts treatment and the richness of their biomolecules Looks at the nutraceutical and health benefit aspects of such biomolecules from food waste byproducts Provides attractive and sustainable methodologies for bioproduct extraction and recovery for industrial application This volume Food Byproducts Management and Their Utilization presents strategies that are of interest in food engineering green chemistry biotechnology and some other areas while paying special attention to biorefinery approaches and new challenges that industries are dealing with in the era of sustainable development It aims to encourage not only researchers but also governmental and enterprise sectors to recognize the value and applications of food byproducts and waste *Quinones and Quinone Enzymes, Part B*, 2004-03-08 Quinones are members of a class of aromatic compounds with two oxygen atoms bonded to the ring as carbonyl groups This volume covers more clinical aspects of quinines such as anticancer properties as well as their role in nutrition and in age related diseases Mitochondrial Ubiquinone and Reductases Anticancer Quinones and Quinone Oxido Reductases Quinone Reductases Chemoprevention Nutrition Quinones and Age Related Diseases Bacterial Invasion into Eukaryotic Cells Tobias A. Oelschlaeger, Jörg H. Hacker, 2013-04-17 This latest volume in the excellent Subcellular Biochemistry series is the first attempt to give an in depth overview of the field of bacterial cell invasion The current knowledge about all well studied bacteria with the ability to invade eukaryotic cells is brought together including bacteria pathogenic to humans and animals as well as the symbiotic rhizobia Several chapters also deal with new approaches and applications regarding invasive bacteria The book which includes contributions from worldwide experts discusses bacterial invasion ability within the context of bacteria host cell interaction with the main focus on pathogenicity **Vitamins** George F. M. Ball, 2008-04-15 This single source reference draws together the current knowledge of the vitamins biological properties in the context of human nutrition Vitamins are co enzymes antioxidants or precursors of hormones and are therefore involved in a great many biochemical and physiological processes They play a vital role in the maintenance of health and there is evidence that dietary sources of vitamins have beneficial effects in the prevention of heart related diseases bone diseases and possibly cancer Following introductory chapters on historical and nutritional aspects of vitamins the next four chapters cover relevant and detailed aspects of physiology and functional anatomy biochemistry immunology and the regulation of protein synthesis by nuclear hormone receptors These background chapters supported by a glossary of terms provide the scientific principles upon which vitamin functions are based The following thirteen chapters deal with each vitamin in turn Subject areas include chemical structure intestinal absorption transport metabolism biochemical and physiological actions immunoregulatory properties deficiency related diseases and potential toxicity An extensive bibliography refers the reader to the original research literature Vitamins is aimed at nutritionists biochemists physiologists and physicians whether they be researchers teachers or students Food scientists food technologists and many others working in the health professions will also find much

of use and interest in the book The inclusion of the theoretical principles in the background chapters makes the book an ideal starting point for those working outside the area who need a solid overview of the subject **Phospholipid Metabolism in**

Apoptosis Peter J. Quinn, Valerian E. Kagan, 2006-04-18 The last few years have witnessed an explosion of both interest and knowledge about apoptosis the process by which a cell actively commits suicide The number of publications on the topic has increased from nothing in the early 1980s to more than 10 000 papers annually today It is now well recognized that apoptosis is essential in many aspects of normal development and is required for maintaining tissue homeostasis The idea that life requires death seems somewhat paradoxical but cell suicide is essential for an animal to survive For example without selective destruction of non self T cells an animal would lack immunity Similarly meaningful neural connections in the brain are whittled from a mass of cells Further developmental cell remodeling during tissue maturation involves programmed cell death as the major mechanism for functional and structural safe transition of undifferentiated cells to more specialized counterparts Apoptosis research with roots in biochemistry developmental and cell biology genetics and immunology embraces this long ignored natural law Failure to properly regulate apoptosis can have catastrophic consequences Cancer and many diseases AIDS Alzheimer s disease Parkinson s disease heart attack stroke etc are thought to arise from deregulation of apoptosis As apoptosis emerges as a key biological regulatory mechanism it has become harder and harder to keep up with new developments in this field **Membrane Dynamics and Domains** Peter J. Quinn, 2013-06-29 The fluid

mosaic model of membrane structure formulated by Singer and Nicolson in the early 1970s has proven to be a durable concept in terms of the principles governing the organization of the constituent lipids and proteins During the past 30 or so years a great deal of information has accumulated on the composition of various cell membranes and how this is related to the different functions that membranes perform Nevertheless the task of explaining particular functions at the molecular level has been hampered by lack of structural detail at the atomic level The reason for this is primarily the difficulty of crystallizing membrane proteins which require strategies that differ from those used to crystallize soluble proteins The unique exception is bacteriorhodopsin of the purple membrane of Halobacterium halobium which is interpolated into a membrane that is neither fluid nor in a mosaic configuration To date only 50 or so membrane proteins have been characterised to atomic resolution by diffraction methods in contrast to the vast data accumulated on soluble proteins Another factor that has been difficult to explain is the reason why the lipid complement of membranes is often extremely complex Many hundreds of different molecular species of lipid can be identified in some membranes Remarkably the particular composition of each membrane appears to be maintained within relatively narrow limits and its identity distinguished from other morphologically distinct membranes **Intermediate Filaments** Harald Herrmann, J. Robin

Harris, 1998-09-30 Comprises 20 contributions on intermediate filament IF proteins providing a comprehensive overview of the essentials of IF research and very recent developments including many previously unpublished concepts and results

Representative topics include intermediate filament organization during oogenesis and early development in the clawed frog lessons from keratin transgenic and knockout mice cytokeratins as markers of differentiation in the diagnosis of epithelial tumors vimentin and lipid metabolism and nuclear lamin binding proteins Annotation copyrighted by Book News Inc Portland OR *Applications of Group-Theoretical Methods in Hydrodynamics* V.K. Andreev,O.V. Kaptsov,Vladislav V.

Pukhnachev,A.A. Rodionov,1998-10-31 It was long ago that group analysis of differential equations became a powerful tool for studying nonlinear equations and boundary value problems This analysis was especially fruitful in application to the basic equations of mechanics and physics because the invariance principles are already involved in their derivation It is in no way a coincidence that the equations of hydrodynamics served as the first object for applying the new ideas and methods of group analysis which were developed by I V Ovsyannikov and his school The authors rank themselves as disciples of the school The present monograph deals mainly with group theoretic classification of the equations of hydrodynamics in the presence of planar and rotational symmetry and also with construction of exact solutions and their physical interpretation It is worth noting that the concept of exact solution to a differential equation is not defined rigorously different authors understand it in different ways The concept of exact solution expands along with the progress of mathematics solutions in elementary functions in quadratures and in special functions solutions in the form of convergent series with effectively computable terms solutions whose searching reduces to integrating ordinary differential equations etc We consider it justifiable to enrich the set of exact solutions with rank one and rank two invariant and partially invariant solutions to the equations of hydrodynamics

Enzyme-Catalyzed Electron and Radical Transfer Andreas Holzenburg,Nigel S. Scrutton,2006-01-27 Dramatic advances have been made in recent years in the field of redox enzymology which has resulted in an increase of research activities This volume will cover the recent milestone developments in this field by leading experts uniting theory and experiment and selecting contributions to illustrate important aspects of the mechanisms of electron and radical transfer in proteins Features A demonstration of the key principles controlling biological redox reactions Experimental studies of simple soluble systems in various enzyme families to illustrate concepts in the control of electron transfer reactions Detail of advances made in membrane electron transfer through structural descriptions of key membrane embedded proteins Appeal to those interested in the design and use of redox enzymes from academics to industrialists **Fusion of Biological**

Membranes and Related Problems Herwig J. Hilderson,Stephen Fuller,2000-04-30 In this book some aspects of fusion of biological membranes as well as related problems are presented Although not complete there is a lot of recent information including on virus induced membrane fusion **Vitamin D Endocrine System** Anthony W. Norman,2000 **α -Gal and**

Anti-Gal Uri Galili,José-Luis Avila,2012-12-06 Uri Galili who originally discovered anti Gal and the unique evolution of 1 3 galactosyltransferase and by Dr Jose Luis Avila who has been studying anti Gal significance in Chagas disease and in Leishmania infections This book covers the main areas of research on 1 3galactosyltransferase its product the gal epitope

Gal1 3Gal1 4GlcNAc R and the natural anti Gal antibody that interacts with this epitope **Nutrition in Epigenetics** Mihai D. Niculescu,Paul Haggarty,2011-06-28 The study of epigenetics or how heritable changes in gene expression are regulated without modifying the coding DNA sequence has become an increasingly important field of study in recent years Rapid developments in our understanding of the way in which gene function is modulated by the environment has revolutionized the way we think about human development and health Nutrition in Epigenetics reviews the latest research looking at the interaction between genes and nutrients and the role they play together in maintaining human health Nutrition in Epigenetics is divided into two primary parts The first part provides key principles such as epigenetic mechanisms developmental epigenetics and the role of epigenetics in disease The second part looks specifically at the application of epigenetics to the field of human nutrition Chapters review the role of specific nutrients in modulating epigenetic status and the effect on health and disease Nutrition in Epigenetics is an indispensable resource for researchers professionals and advanced students with an interest in human nutrition epigenetics and biomedical research **Alzheimer's Disease:**

Cellular and Molecular Aspects of Amyloid beta J. Robin Harris,Falk Fahrenholz,2006-11-22 To understand Alzheimer s disease AD is one of the major thrusts of present day clinical research strongly supported by more fundamental cellular biochemical immunological and structural studies It is these latter that receive attention within this book This compilation of 20 chapters indicates the diversity of work currently in progress and summarizes the current state of knowledge Experienced authors who are scientifically active in their fields of study have been selected as contributors to this book in an attempt to present a reasonably complete survey of the field Inevitably some exciting topics for one reason or another have not been included for which we can only apologize Standardization of terminology is often a problem in science not least in the Alzheimer field editorial effort has been made to achieve standardization between the Chapters but some minor yet acceptable personal author variation is still present i e P amyloid amyloid P Ap42 Apl 42 APi 42 The book commences with a broad survey of the contribution that the range of available microscopical techniques has made to the study of Alzheimer s amyloid plaques and amyloid fibrillogenesis This chapter also serves as an Introduction to the book since several of the topics introduced here are expanded upon in later chapters Also it is significant to the presence of this chapter that the initial discovery of brain plaques by Alois Alzheimer utilized light microscopy a technique that continues to be extremely valuable in present day AD research Examining the Current State of Cosmetics United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health,2013 **Unlisted Drugs** ,1979 **Revue Roumaine de Chimie** ,2005

Breastfeeding Kingsley Emwinyore Agho,Benjamin John Wheeler,2020-05-28 Breastfeeding is the preferred method of feeding in early life It is also one of the most cost effective childhood survival interventions Breastfeeding practices are important for preventing child mortality and morbidity as well as ensuring the optimal growth health and development of infants The public health benefits of breastfeeding have been well documented in the medical literature and include the

following associations with decreased risk for early life diseases such as otitis media respiratory tract infection diarrhoea and early childhood obesity to name but a few This Special Issue book includes a collection of studies on the use of novel methods to improve breastfeeding rates and research exploring the short and long term benefits of breastfeeding for both the infant and mother including technology based approaches

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