Subcellular Biochemistry

Volume 25

Ascorbic Acid: Biochemistry and Biomedical Cell Biology

Edited by

J. Robin Harris

Han Asard, James May, Nicholas Smirnoff

Subcellular Biochemistry J. Robin Harris, 2013-11-11 In Volume 25 leading experts present studies on the value of increased ascorbic acid intake and explore its specific contributions to human and animal health Biology of the Lysosome John B. Lloyd, Robert W. Mason, 2012-12-06 Volume 27 provides a comprehensive review of current knowledge of lysosome function in mammalian cells The book s unique contribution is its series of chapters that offers unparalleled treatment of the Molecular and Cellular Biology of the Vitamins George F.M. Ball, 2024-10-02 Molecular metabolic activities of lysosomes and Cellular Biology of the Vitamins is a key resource describing how vitamins function as physiologically active molecules at the cellular level The contents of the book are divided into four sections including a thorough introduction biological perspectives fat soluble vitamins and water soluble vitamins Vitamin chapters cover information on chemical structures intestinal absorption plasma transport and metabolism biochemical and physiological actions regulations of gene expression immunological properties deficiency related diseases The perspectives chapters facilitate the understanding of vitamin biology including the theory of biochemistry physiology endocrinology molecular genetics and immunology Features Facilitates learning and understanding through a logical flow of information Discusses vitamin behavior across a wide range of biological disciplines Discusses immunological and deficiency related diseases including coronary artery disease diabetes and cancer and potential toxicity Molecular and Cellular Biology of the Vitamins appeals to those involved in vitamin research or teaching postgraduate students studying nutrition or health related topics health practitioners and scientists

Cholesterol Robert Bittman,2013-11-11 Experts investigate the biochemical and biomedical aspects of cholesterol addressing its metabolism in normal and disease states They discuss a broad range of topics including key steps in the cholesterol biosynthetic pathway and the role of cholesterol in cancer atherosclerosis and diseases of the nervous system The book s comprehensive coverage also includes the pathological consequences and potential therapies for various disease states and the development of new anti atherogenic drugs

Plant-Microbe Interactions B.B. Biswas,H.K.

Das,2013-11-11 Recent years have seen tremendous progress in unraveling the molecular basis of different plant microbe interactions Knowledge has accumulated on the mecha nisms of the microbial infection of plants which can lead to either disease or resistance The mechanisms developed by plants to interact with microbes whether viruses bacteria or fungi involve events that can lead to symbiotic association or to disease or tumor formation Cell death caused by pathogen infection has been of great interest for many years because of its association with plant resistance There appear to be two types of plant cell death associated with pathogen infection a rapid hypersensitive cell death localized at the site of infection during an incompatible interaction between a resistant plant and an avirulent pathogen and a slow normosensitive plant cell death that spreads beyond the site of infection during some compatible interactions involving a susceptible plant and a virulent necrogenic pathogen Plants possess a number of defense mechanisms against infection such as i production of

phytoalexin ii formation of hydrolases iii accumulation of hydroxyproline rich glycoprotein and lignin deposition iv production of pathogen related proteins v produc tion of oligosaccharides jasmonic acid and various other phenolic substances and vi production of toxin metabolizing enzymes Based on these observations insertion of a single suitable gene in a particular plant has yielded promising results in imparting resistance against specific infection or disease It appears that a signal received after microbe infection triggers different signal transduction pathways 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 1 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 in variant and partially invariant solutions to the equations of hydrodynamics Fusion of Biological Membranes and Related Problems Herwig J. Hilderson, Stephen Fuller, 2005-11-19 Membrane fusion and targeting processes are tightly regulated and coordinated Dozens of proteins originating from both the cytoplasm and membranes are involved The discovery of homologous proteins from yeast to neurons validates a unified view Although much is known about the interfering proteins the events occurring when two lipid bilayers actually fuse are less clear It should be remembered that lipid bilayers behave like soap bubbles fusing when meeting each other In this respect interfering proteins should be considered as preventing undesirable and unnecessary fusion and eventually directing the biological membrane fusion process when where how and overcoming the activation energy In this latest volume in the renowned Subcellular Biochemistry series 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 The contributors of the chapters are all among the researchers who performed many of the pioneering studies in the field **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 expan sion 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

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 myo-Inositol Phosphates, Phosphoinositides, and **Signal Transduction** B.B. Biswas, Susweta Biswas, 2013-11-11 The heterogeneity of topics is very ambitious and the result is overall successful because of the high quality of the individual contributions highly recommended American Scientist from a review of a previous volume Volume 26 examines the emerging areas of signal transduction based on myoinositol phosphates and Ca2 while focusing on plant and animal responses Chapters explore synthesis separation and identification of different **α-Gal and Anti-Gal** Uri Galili, José-Luis Avila, 2012-12-06 Uri Galili who originally discovered anti inositol phosphates 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 Vitamin C Han Asard, James May, Nicholas Smirnoff, 2004-08-02 Vitamin C ascorbic acid is a key vitamin to animals and plants This book looks at all aspects of vitamin C its chemical and biochemical properties its role in various plants and animals and its effect on our health Written by an international team of experts together they represent much of the expertise on vitamin C throughout the world Evolution of Evidence for Selected Nutrient and Disease Relationships Institute of Medicine, Food and Nutrition Board, Committee on Examination of the Evolving Science for Dietary Supplements, 2002-06-14 The Committee on Examination of the Evolving Science for Dietary Supplements of the Institute of Medicine's Food and Nutrition Board was directed to review retrospectively selected case studies of diet and health relationships that were relevant to dietary supplements and identified as important in the National Research Council report Diet and Health Implications for Chronic Disease Risk D H NRC 1989 It was then to determine the extent to which

subsequent scientific evidence from the peerreviewed literature used in published reports from the Dietary Reference Intakes DRI series IOM 1997 1998 2000a 2001 either agreed with the preliminary evidence used to support the relationship identified originally in the 1989 review or significantly modified the original hypotheses and preliminary conclusions The committee s analysis was to include characteristics of research with apparent high probability of predicting future confirmation by new science in support of a diet and health relationship It also was to consider characteristics of information useful to consumers that would allow them to make scientifically informed judgments about the role that a specific food Plasma Membrane Redox Systems and their role in Biological Stress and Disease component or nutrient plays in health Han Asard, Alajos Bérczi, Roland J. Caubergs, 2013-06-29 Oxidation reduction i e redox processes at the plasma membrane of any cell have been attracting more and more attention both in basic and in applied research since the first workshop dealing with the plasma membrane oxidoreductases was organized in Cordoba Spain in 1988 This evolution is evident considering the numerous cell functions performed by plasma membrane redox systems not only in healthy cells but also in cells that escaped from the normal metabolic control e g cancer cells and cells under attack by pathogens Plasma membrane redox processes have now been demonstrated to play an essential role in growth control and defense mechanisms of these cells The great importance of the plasma membrane redox systems originates in the fact that they are located in the membrane which is essentially the site of communication between the living cell and its environment We may say that the plasma membrane can be considered as the sensory part of the cell No chemical substance can enter the cell interior without interaction with the plasma membrane **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 Wound Care Essentials Sharon Baranoski, Elizabeth Ayello, 2015-07-29 Written by renowned wound care experts Sharon Baranoski and Elizabeth Ayello in collaboration with an interdisciplinary team of experts this handbook covers all aspects of wound assessment treatment and care the Older Adult Melissa Bernstein, Nancy Munoz, 2014-10-13 Reorganized and updated with the latest data in the field the Second Edition of Nutrition for the Older Adult introduces students to the unique nutritional needs of this special population Designed for the undergraduate the text covers such important topics as the physiological changes of aging weight and nutrition problems in older adults diet and cultural diversity in older adults macronutrient mineral and vitamin requirements for older adults and much more With an added emphasis on health promotion Nutrition for the Older Adult is an essential resource for students in the fields of nutrition nursing public health and gerontology Handbook of Fermented Food and Beverage Technology Two Volume Set Y. H. Hui, E. Özgül Evranuz, 2012-05-21 Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet especially in rural households and village communities worldwide Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened int Phytochemicals Wayne R. Bidlack, Stanley T. Omaye, Mark S. Meskin, Debra K.W. Topham, 1998-09-14 The phytochemical industry has entered a rapid growth phase internationally Market demands are driving product development while science tries to identify specific components that contribute health giving properties at physiological exposure levels. This book presents the findings of multidisciplinary research on the identification of active components in plant products and their possible physiologic benefits in the management or prevention of disease Findings include the latest epidemiological evidence on the association of fruits and vegetables and reduced risk of a variety of tumors the role of tocotrienols in atherosclerosis and cancer prevention the balance between known benefits and risks of free radical oxidation chemistry metabolic pathways of carotenoids and their potential role in the prevention of cancer and age related macular degeneration a model for viewing interactions between phytochemicals Also discussed are the potential applications for fungal components as food ingredients and supplement products and components of garlic and onions including changes caused by processing of garlic nutritional supplements A final chapter discusses developing claims for new phytochemical products **Progress in Botany** H.-D. Behnke, K. Esser, J. W. Kadereit, U. Lüttge, M. Runge, 2012-12-06 With one volume each year this review series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences Starting with this volume the sections of PROGRESS IN BOTANY have been restructured The new sections Genetics Cell Biology and Physiology Systematics and Comparative Morphology Ecology and Vegetation Science correspond to the subdivision of the field of botany generally used by the scientific community

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