

Subcellular Biochemistry 56

Olaf Stanger
Editor



Water Soluble Vitamins

Clinical Research and Future Application

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Water Soluble Vitamins Clinical Research And Future Application Subcellular Biochemistry

G. F. M. Ball

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Water Soluble Vitamins Olaf Stanger, 2011-11-27 The discovery of vitamins in the early 1900s their later chemical characterization and the clarification of pivotal metabolic functions are sequential aspects of a brilliant chapter in the history of modern nutritional sciences and medicine The name derived from vital amines indicates their elementary metabolic key functions in human metabolism Vitamins are truly families of compounds which include precursors and various free and bound forms all with individual roles in metabolism and function A more recent approach therefore searches for the components the understanding of their roles in physiology and pathology as well as looking for novel pharmacological applications When used properly vitamins are indeed magical substances Due to their efficacy they should therefore be regarded as drugs with effects and side effects to be weighted against each other Today it is not the previously fatal deficiency associated diseases that are in the focus of interest but rather the relation of suboptimal vitamin bioavailability to chronic disease This is complicated by genetic susceptibility lifestyle and the presence or absence of health compromising habits such as smoking In turn the development and application of new and more sensitive and specific assays further enable us to look more closely into the many functions of vitamins Water soluble vitamins are complex molecular structures and even today many areas in vitamin biochemistry are not yet fully understood Novel effects and functions of vitamins remain and continue to be discovered This book presents most recent research results and fascinating new knowledge on the role and effects of the water soluble vitamins in man Some of the most distinguished chemists biochemists biologists and clinicians have contributed valuable chapters sharing unexpected novel insights into the biochemistry epi genetics metabolism and function of water soluble vitamins with their potential for clinical applications Thus physicians clinicians scientists researchers epidemiologists nutritional specialists and health professionals alike will find stimulating and fascinating new insight in the many roles that water soluble vitamins play in human health and disease

Water Soluble Vitamins Olaf Stanger, 2011-11-26 The discovery of vitamins in the early 1900s their later chemical characterization and the clarification of pivotal metabolic functions are sequential aspects of a brilliant chapter in the history of modern nutritional sciences and medicine The name derived from vital amines indicates their elementary metabolic key functions in human metabolism Vitamins are truly families of compounds which include precursors and various free and bound forms all with individual roles in metabolism and function A more recent approach therefore searches for the components the understanding of their roles in physiology and pathology as well as looking for novel pharmacological applications When used properly vitamins are indeed magical substances Due to their efficacy they should therefore be regarded as drugs with effects and side effects to be weighted against each other Today it is not the previously fatal deficiency associated diseases that are in the focus of interest but rather the relation of suboptimal vitamin bioavailability to chronic disease This is complicated by genetic susceptibility lifestyle and the presence or absence of health compromising habits such as smoking In

turn the development and application of new and more sensitive and specific assays further enable us to look more closely into the many functions of vitamins Water soluble vitamins are complex molecular structures and even today many areas in vitamin biochemistry are not yet fully understood Novel effects and functions of vitamins remain and continue to be discovered This book presents most recent research results and fascinating new knowledge on the role and effects of the water soluble vitamins in man Some of the most distinguished chemists biochemists biologists and clinicians have contributed valuable chapters sharing unexpected novel insights into the biochemistry epi genetics metabolism and function of water soluble vitamins with their potential for clinical applications Thus physicians clinicians scientists researchers epidemiologists nutritional specialists and health professionals alike will find stimulating and fascinating new insight in the many roles that water soluble vitamins play in human health and disease

Handbook of Nutritional Disorders Jahangir Moini, Katia Ferdowsi, 2024-12-10 *Handbook of Nutritional Disorders* is a comprehensive handbook covering topics in nutrition malnutrition and the clinical disorders associated with nutrition from deficiency to toxicity It includes information on disorders related to carbohydrate lipid and protein metabolism as well as vitamin and mineral abnormalities The book details various types of supplements feeding methods and therapies for many specific patients It aims to educate readers on ways to prevent disorders resulting from all types of malnutrition and their potentially severe complications Features Strong focus on diabetes featuring information on various forms of the disease and treatment information Detailed discussion of lipids and related disorders cardiovascular disease is the number one cause of death informs users on prevention and treatment of hypertension myocardial infarction and stroke Contains information on selective nutritional disorders including obesity dehydration imbalances malabsorption alcoholism neuropsychiatric disorders eating disorders cancer and pollutant poisonings Written for researchers academia and students in healthcare and nutrition fields this book educates individuals on prevention of disorders resulting from all types of malnutrition and their potentially severe complications

[Vitamin B12](#) Gerald Litwack, 2022-03-23 *Vitamin B12* Volume 119 in the *Vitamins and Hormones* series 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 the *Vitamins and Hormones* series Updated release includes the latest information on Vitamin B12

The Journal of Biological Chemistry, 1963 Vols 3 include the society's Proceedings 1907

Health Science Books, 1876-1982, 1982

Bibliography of Agriculture, 1990-11

New Research and Developments of Water-Soluble Vitamins, 2018-02-21 *New Research and Developments of Water Soluble Vitamins* Volume 83 provides updated knowledge about nutrients in foods and how to avoid their deficiency especially for those essential nutrients that should be present in the diet to reduce disease risk and optimize health The book provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefits With up to date information on food science including raw materials production processing

distribution and consumption it is an ideal resource for nutritionists and researchers alike Contains guidance from carefully selected researchers that is based on his her long experience and high expertise on the subject matter Presents updated and in depth critical discussions of available information giving readers a unique opportunity to gain a broad view of the subject Provides high quality illustrations with a high percentage in color to enhance the content **American Book Publishing Record Cumulative, 1950-1977: Author index** R.R. Bowker Company. Department of Bibliography,1978

Water-Soluble Vitamins, Hormones, Antibiotics Marcel Florkin,Elmer H. Stotz,2014-06-28 Comprehensive Biochemistry Volume 11 Water Soluble Vitamins Hormones Antibiotics deals with the organic and physical chemistry of the major organic constituents of living material This book provides a sound treatment of the important biological high polymers emphasizing their shape and physical properties A number of substances peculiar to plants certain isoprenoids flavonoids tannins lignins and plant hormones are also covered This publication likewise discusses the fate of thiamine in living organisms biologically active isoalloxazines and auxins with a heterocyclic ring system Other topics include the yolk formation hormone of the corpora allata biochemical aspect of the antibiotics and miscellaneous antibiotics derivable from amino acids This volume is a good source for biochemists and specialists conducting work on water soluble vitamins hormones and antibiotics

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 Water-soluble Vitamin Assays in Human Nutrition G.F.M. Ball,2012-12-06 this is a valuable addition to the food analyst s library It brings together a well balanced account of the methods available in the literature cited will provide the analyst with all the details needed for setting up water soluble vitamin assays and further reading to understand why these vitamins are important to those concerned with human nutrition International Journal of Food Science and Technology This book is of practical use as a tool and reference work of laboratory managers senior analysts and laboratory technicians in food and vitamin manufacturing companies for those in government and research institutes and for medical researchers public analyst and nutritionist It can also be recommended for a broad audience including lectures students of natural sciences and food technologists Lebensmittel Wiss und Technol I recommend Water soluble

vitamins Assays in Human Nutrition not only to scientist in academia and industry and students in all food related fields as a valuable and easily used reference it will most likely be the first book I reach for when the inevitable question arises April 1994 Price 115 00UK **Hormones** Edward Penley Abraham, 1963 **The Fat-Soluble Vitamins** H. DeLuca, 2012-12-06

The first demonstration of the existence of a vitamin and the full recognition of this fact are often attributed to the work of McCollum who found that a substance in butterfat and cod liver oil was necessary for growth and health of animals fed purified diets. It became obvious that an organic substance present in microconcentrations was vital to growth and reproduction of animals. Following the coining of the word vitamin by Funk, McCollum named this fat-soluble substance vitamin A. We can therefore state that vitamin A was certainly one of the first known vitamins yet its function and the function of the other fat-soluble vitamins had remained largely unknown until recent years. However, there has been an explosion of investigation and new information in this field which had remained quiescent for at least two or three decades. It is now obvious that the fat-soluble vitamins function quite differently from their water-soluble counterparts. We have learned that vitamin D functions by virtue of its being converted in the kidney to a hormone that functions to regulate calcium and phosphorus metabolism. This new endocrine system is in the process of being elucidated in detail and in addition the medical use of these hormonal forms of vitamin D in the treatment of a variety of metabolic bone diseases has excited the medical community.

Molecular and Cellular Biology of the Vitamins G. F. M. Ball, 2024. Molecular 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.

Molecular and Cellular Biology of the Vitamins George F.M. Ball, 2024-10-02. Molecular 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

Fat-Soluble Vitamins: Biochemistry and Clinical Applications Lucy Taylor, 2023-09-26 Vitamins are organic molecules and essential micronutrients that are required by organisms in small quantities for appropriate functioning of their metabolism Essential nutrients are usually not synthesized or if at all are synthesized in insufficient quantities in the body of organisms Therefore organisms must obtain vitamins through proper diet The majority of vitamins contain groups of related molecules known as vitamers For instance vitamin E has eight vitamers comprising four tocotrienols and four tocopherols In humans 13 vitamins are found They are vitamins A E C K D B1 B5 B9 B2 B12 B3 B7 and B9 The vitamins are classified as being either fat soluble or water soluble based on their solubility Vitamins A D E and K are fat soluble vitamins whereas all others are water soluble The fat soluble vitamins are absorbed by the body along with the fats They are stored within the liver and the fatty tissue This book explores the biochemistry and clinical applications of vitamins Those in search of information to further their knowledge on fat soluble vitamins will be greatly assisted by it

The Fat-Soluble Vitamins H. DeLuca, 2012-10-20 The first demonstration of the existence of a vitamin and the full recognition of this fact are often attributed to the work of McCollum who found that a substance in butterfat and cod liver oil was necessary for growth and health of animals fed purified diets It became obvious that an organic substance present in microconcentrations was vital to growth and reproduction of animals Following the coining of the word vitamin by Funk McCollum named this fat soluble substance vitamin A We can therefore state that vitamin A was certainly one of the first known vitamins yet its function and the function of the other fat soluble vitamins had remained largely unknown until recent years However there has been an explosion of investigation and new information in this field which had remained quiescent for at least two or three decades It is now obvious that the fat soluble vitamins function quite differently from their water soluble counterparts We have learned that vitamin D functions by virtue of its being converted in the kidney to a hormone that functions to regulate calcium and phosphorus metabolism This new endocrine system is in the process of being elucidated in detail and in addition the medical use of these hormonal forms of vitamin D in the treatment of a variety of metabolic bone diseases has excited the medical community

Water-soluble Vitamins Jennifer E. L. Anderson, Linda E. Young, 2002

"The" Water-soluble Vitamins S. Lepkovsky, 1940

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