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Titolo	Vitamins [[electronic resource]] : their role in the human body // G.F. M. Ball
Pubbl/distr/stampa	Oxford, : Blackwell Science, 2004
ISBN	1-280-21343-4 9786610213436 0-470-79017-2 0-470-77457-6 1-4051-4810-1
Descrizione fisica	1 online resource (450 p.)
Disciplina	612.399 613.2/86 613.286
Soggetti	Vitamins - Physiological effect Vitamins in human nutrition Vitamines en la nutrició humana Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; 8.7 Immunoregulatory properties; 8.11 Toxicity; Further reading; Foreword; Preface; 1 Historical Events Leading to the Establishment of Vitamins; 1.1 Introduction; 1.2 Early studies of nutritionally related diseases; 1.3 Experiments on formulated diets; 1.4 Naming of the vitamins; Further reading; References; 2 Nutritional Aspects of Vitamins; 2.1 Definition and classification of vitamins; 2.2 Nutritional vitamin deficiency; 2.3 Stability and bioavailability of vitamins; 2.4 Vitamin requirements; Further reading; References; 3 Background Physiology and Functional Anatomy 3.1 Movement of solutes across cell membranes and epithelia 3.2 The blood-brain, blood-cerebrospinal fluid and placental barriers; 3.3 Functional anatomy of the small and large intestine, liver and kidney; 3.4 Digestion and absorption; 3.5 Glucose transport; 3.6 Digestion, absorption and transport of dietary fat; 3.7 Neural and endocrine

communication systems; 3.8 Structure of bone and its growth and development; 3.9 Cell proliferation; Further reading; References; 4 Background Biochemistry; 4.1 Major degradation pathways in which B-group vitamins are involved as coenzymes
 4.2 Amino acid utilization 4.3 Defences against free radicals and other reactive species; 4.4 Haemostasis; 4.5 Atherosclerosis; Further reading; References; 5 Background Immunology; 5.1 General features of the immune system; 5.2 Innate immunity; 5.3 Inflammation; 5.4 Acquired immunity; 5.5 Cytokines; 5.6 Hypersensitivity; 5.7 Immune suppression; 5.8 Neuroendocrine modulation of immune responses; Further reading; References; 6 The Genetic Control of Protein Synthesis and its Regulation by Nuclear Hormone Receptors; 6.1 Functional structure of DNA; 6.2 Role of RNA in protein synthesis
 6.3 Gene expression 6.4 Mutation and polymorphism; 6.5 Basal transcription; 6.6 Regulated transcription; 6.7 Jun, Fos and the AP-1 complex; 6.8 Nuclear hormone receptors as regulators of protein synthesis; Further reading; References; 7 Vitamin A: Retinoids and Carotenoids; 7.1 Historical overview; 7.2 Chemistry and biological functions; 7.3 Dietary sources; 7.4 Absorption, transport and metabolism; 7.5 Nutritional factors that influence vitamin A status; 7.6 The role of vitamin A in vision; 7.7 Retinoids as regulators of gene expression; 7.8 Effects of vitamin A on the immune system
 7.9 Role of vitamin A in bone metabolism and embryonic development 7.10 Vitamin A and cancer; 7.11 Vitamin A deficiency and toxicity; Further reading; References; 8 Vitamin D; 8.1 Historical overview; 8.2 Chemistry and biological functions; 8.3 Dietary sources; 8.4 Cutaneous synthesis, intestinal absorption, transport and metabolism; 8.5 Molecular action of the vitamin D hormones; 8.6 Calcium and phosphate homeostasis; 8.8 Effects of vitamin D on insulin secretion; 8.9 Vitamin D-related diseases; 8.10 Therapeutic applications of vitamin D analogues; 8.12 Dietary requirement; Further reading
 References

Sommario/riassunto

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, th

2. Record Nr.	UNINA9910704787303321
Autore	Oden Timothy D.
Titolo	Estimated rates of groundwater recharge to the Chicot, Evangeline, and Jasper aquifers by using environmental tracers in Montgomery and adjacent counties, Texas, 2008 and 2011 / / by Timothy D. Oden and Margot Truini; prepared in cooperation with the Lone Star Groundwater Conservation District
Pubbl/distr/stampa	Reston, Virginia. : , : U.S. Department of the Interior, U.S. Geological Survey, , 2013
Edizione	[Revised May 31, 2013.]
Descrizione fisica	1 online resource (viii, 50 pages) : color illustrations
Collana	Scientific investigations report ; ; 2013-5024
Soggetti	Groundwater recharge - Texas - Montgomery County Aquifers - Texas - Montgomery County
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed Nov. 7, 2013). Appendixes 1-5 contained in separate files.
Nota di bibliografia	Includes bibliographical references (pages 45-49).