

1. Record Nr.	UNINA9910337479903321
Titolo	Vitamin E in Human Health / / edited by Peter Weber, Marc Birringer, Jeffrey B. Blumberg, Manfred Eggersdorfer, Jan Frank
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Humana, , 2019
ISBN	3-030-05315-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (490 pages)
Collana	Nutrition and Health
Disciplina	615.328
Soggetti	Diet therapy Nutrition Food—Biotechnology Clinical Nutrition Food Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- History of Vitamin E Research -- Antioxidative Activity of Vitamin E -- Bioavailability and Metabolism of Vitamin E -- Occurrence and Bioactivities of Minor Vitamin E Derivatives -- Bioactivity of Vitamin E Long-Chain Metabolites -- Gene-regulatory Activity of Vitamin E -- Metabolomic Approaches in Vitamin E Research -- The Tocopherol Transfer Protein: Regulator of Vitamin E Status -- The Role of Lipid Rafts in Mediating the Anticancer Effects of γ -Tocotrienol -- Interaction between Vitamin E and Polyunsaturated Fatty Acids -- The Challenge of Defining Daily Intake Recommendations: Vitamin E and Polyunsaturated Fatty Acids -- Vitamin E Intake and Serum Levels in the General Population: a Global Perspective -- Vitamin E Serum Levels and the Challenge to Correct for Lipids: Accounting for the Usual Double Correction for Variance shared by Total Cholesterol and Fasting Triglycerides Reveals New Insights into the Association with the One Carbon Pathway -- Stability of Vitamin E in Foods -- Vitamin E and Mortality: A Critical Perspective of the Conflicting Meta-Analysis Outcomes -- Vitamin E: Drug Interactions -- Vitamin E: Interactions with Vitamin K and other Bioactive Compounds -- Clinical Cardiovascular Disease Trials: The Vitamin E Case -- Haptoglobin

Genotype and a Promising Pharmacogenomic Approach to Prevent Diabetic Atherothrombosis with Vitamin E Supplementation -- Vitamin E and Metabolic Syndrome -- Vitamin E in nonalcoholic Fatty Liver Disease -- The Role of Vitamin E in Aging and Alzheimer's Disease -- The Impact of Vitamin E Isoforms on Asthma and Allergy -- Vitamin E, Immune Function, and Protection Against Infection -- Vitamin E and Air Pollution -- The Role of Vitamin E in Pregnancy -- Vitamin E and Health Care Costs: Models to Assess the Impact -- Do Consumers Care about Micronutrients? A Perspective on the Possible Role of Vitamin E in the Dietary Choices of Consumers -- Addressing Key Knowledge Gaps in Nutrition and the Impact of Funding Priorities in Human Nutrition. .

Sommario/riassunto

This comprehensive volume examines the role of vitamin E as an essential micronutrient in human health and its extensive clinical benefits. Sections cover a wide breadth of topics, including vitamin E intake and recommended daily allowance, understanding the biological activities of Vitamin E and observed physiological effects, benefits of vitamin E on upper respiratory infections, cardiovascular disease, age-related macular degeneration, Alzheimer's disease, and intake safety. The text serves to emphasize the importance of vitamin E in relation to disease prevention as well as to raise awareness of the number of health conditions where an increased intake of vitamin E can be of potential significance. It explores vitamin E in an up-to-date, science based, applicable real-life perspective and offers pragmatic solutions for its safe and personalized use beyond the various methodological and statistical controversies. Intended for the medical and nutritional community, Vitamin E in Human Health will not only be an expansive resource for healthcare professionals, but also makes efforts to stimulate increased support for vitamin E research and further exploration of the safe and efficacious use for this essential micronutrient. .
