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Titolo	Omega-3 Fatty Acids : Keys to Nutritional Health // edited by Mahabaleshwar V. Hegde, Anand Arvind Zanwar, Sharad P. Adekar
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Nutrition, Life, Disease and Death -- Flax Bio-village Concept -- Status Paper on Linseed/Flax Agriculture -- Omega-3 Milk -- Omega-3 Egg -- Omega-3 Polyunsaturated Fatty Acids and Hyperlipidemias -- World Market of Omega-3 Fatty Acids -- Fortification of Food with Omega-3 Fatty Acids -- Importance of Polyunsaturated Acids from Marin Algae -- Emulsions of Omega-3 Fatty Acids for Better Bioavailability and Beneficial Health Effects -- Omega-3 Fatty Acids in Inflammatory Diseases -- Omega-3 Fatty Acids in Cancer: Insights into the Mechanism of Actions in Pre-clinical Cancer Models -- Linseed as a Functional Food for the Management of Obesity -- Role of Omega-3 Fatty Acids in Metabolic Syndrome -- Balancing Omega-6: Omega-3 Ratios in Oilseeds -- Omega-3 Fatty Acids and Diabetic Complications

-- Omega-3 Fatty Acids and Mitochondrial Functions -- Omega-3 Fatty Acids and Alzheimer's Disease -- Prevention of Oxidative Stress by Omega-3 Fatty Acids in the Brain -- Role of Omega-3 Fatty Acids for Eye Health -- DHA-Rich Algae Oil is a Safe and Effective Vegetarian Source of Omega-3 -- Role of N-3 (Omega-3) Polyunsaturated Fatty Acids in Postpartum Depression: Mechanisms and Implications for Prevention and Treatment -- Influence of Omega-3 Fatty Acids on Bone Turnover -- Interactions between Omega-3 Fatty Acids and Iron -- Role of Omega-3 Fatty Acid in Major Cardiovascular Events-A Current View -- Modulation of Immune Response by Omega-3 in Health and Disease -- The Linoleic to Linolenic Intake Ratio: The Fundamental Implications of Imbalance and Excess Looked at from both a Functional and Evolutionary Perspective-An Overview -- Bioactive Oxidised Products of Omega-6 and -3, Excess Oxidative Stress, Oxidised Dietary Intake, and Antioxidant Nutrient Deficiencies, in the Context of a Modern Diet -- In a Western dietary context excess oxidised linoleic acid (LA) of dietary and endogenous origin by; over-activation of PPAR-gamma so immune and inflammatory pathways, and cardioplipin damage, increases cardiovascular risk -- Linoleic and alpha-linolenic acid have central roles in brain energy substrate provision, endogenous lipid production, immune and repair function, via peroxisomal beta-oxidation related pathways? -- The roles of Linoleic and Alpha Linolenic Acid, their oxylipins, PPAR alpha delta and gamma related peroxisomal pathways, on obesity in the context of a 'Western' diet -- The crucial relevance of ALA and LA as primary peroxisomal beta-oxidation substrates, of oxidised LA as the primary endogenous activator of PPAR gamma, and energy deficit as the primary activator of PPAR alpha -- Effects of Omega-3 Fatty Acids in Myocardial Infarction -- Alternative Origins for Omega-3 Fatty Acids in the Diet -- Maternal Long Chain Polyunsaturated Fatty Acids and Pregnancy Outcome -- Role of Antioxidants in Human Health -- Role of Omega-3 Fatty Acids in Cardiovascular Disorders -- Beneficial Effect of Long-Chain Omega-3 Fatty Acids in Psoriasis -- Pharmacokinetics, Safety Profile of Omega-3 Polyunsaturated Fatty Acids -- Fish Oil Fatty Acids for Aging Disorders.

Sommario/riassunto

This volume argues for the importance of essential nutrients in our diet. Over the last two decades there has been an explosion of research on the relationship of Omega-3 fatty acids and the importance of antioxidants to human health. Expert authors discuss the importance of a diet rich in Omega-3 Fatty acids for successful human growth and development and for the prevention of disease. Chapters highlight their contribution to the prevention and amelioration of a wide range of conditions such as heart disease, diabetes, arthritis, cancer, obesity, mental health and bone health. An indispensable text designed for nutritionists, dietitians, clinicians and health related professionals, Omega-3 Fatty Acids: Keys to Nutritional Health presents a comprehensive assessment of the current knowledge about the nutritional effects of Omega-3 fatty acids and their delivery in foods. .
