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Nota di contenuto	Resonance raman spectroscopy of carotenoids in solution, in model, and in photosynthetic systems / Atanaska Andreeva -- Applicability of the measurement of visible spectroscopic data and color in the analysis of food carotenoids / Antonio J. Melendez-Martines, Isabel Vicario, Francisco J. Heredia -- Carotenoids from microalgae and cyanobacteria : features, production, and applications / Helena M. Amaro, F. Xavier Malcata -- Carotenoids in aquatic resources : occurrence, recovery, application, and biofunctions / R. Sowmya, N.M. Sachindra -- Extraction of carotenoids from food processing by-products / Ezio Riggi -- Saffron (<i>Crocus sativus</i> L.) apocarotenoids : a review of their biomolecular features and biological activity perspectives / Laura Siracusa, Fabio Gresta, Giuseppe Ruberto -- Role of plant based natural carotenoids on feeding, growth, and colouration of fish : a case study / Arunava Mukherjee, Banani Mandal, Samir Banerjee -- Carotenoids and health signaling in animals / Michal Vinkler ... [et al.] -- Marine carotenoids: peculiar structure, atypical chemical behavior, but potential application in human health / Heloisa C. Hollnage, Tatiana G. Polotow, and Marcelo P. Barros -- Carotenoids and bone homeostasis : role in osteoporosis prevention / Masayoshi Yamaguchi -- Peroxisome proliferator-activated receptor gamma is involved in the inhibitory effects of carotenoids on cancer cell proliferation / Wen-en Zhao ... [et al.] -- Potential applications of astaxanthin in human disease / Serdar Dogan, Mutay Aslan -- Beta-cryptoxanthin : a vitamin A-forming carotenoid / Tami Turner, Betty J. Burri, Michael R. La Frano -- Sources

and health effects based on evidences of carotenoids in some fruit and vegetables / Noboru Motohashi.

Sommario/riassunto

Carotenoids are natural pigments synthesized in plants, algae and photosynthetic bacteria by the polymerization of five-carbon isoprene units to provide a long and nearly symmetric conjugated chain of double bonds responsible for atypical chemical properties. Carotenoids can play an important role in the prevention and control of human health and disease conditions such as osteoporosis, cancer, cardiovascular problems, atherosclerosis, rheumatoid arthritis, muscular dystrophy, cataracts and certain neurological disorders. This book presents and discusses current research in the study of carotenoids.
