Carotenoids Physical Chemical And Biological Functions And Properties

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Carotenoids Physical Chemical And Biological
Carotenoids are of great interest due to their essential biological functions in both plants and animals. However, the properties and functions of carotenoids in natural systems are surprisingly complex. With an emphasis on the chemical aspects of these compounds, Carotenoids: Physical, Chemical, and Biological Functions and Properties presents a b

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Carotenoids: Physical, Chemical, and Biological Functions ...
Carotenoids (/ kə'rɒtɪnɔɪd /), also called tetraterpenoids, are yellow, orange, and red organic pigments that are produced by plants and algae, as well as several bacteria, and fungi. Carotenoids give the characteristic color to pumpkins, carrots, corn, tomatoes, canaries, flamingos, salmon, lobster, shrimp, and daffodils.

Carotenoid - Wikipedia
Physical Properties of Carotenoids. Carotenoids typically have a 40-carbon chain backbone composed of eight isoprene molecules. Carotenoids are differentiated and produce different pigments, via modifications to the isoprenoid backbone through cyclization of end groups and oxidation.

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Carotenoids : physical, chemical, and biological functions ...
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Carotenoid is a group of pigments naturally present in vegetal raw materials that have biological properties. These pigments have been used mainly in food, pharmaceutical, and cosmetic industries.

Carotenoids Functionality, Sources, and Processing by ...
Carotenoids are lipophilic isoprenoid compounds synthesized by all photosynthetic organisms and some non-photosynthetic prokaryotes and fungi. With some notable exceptions, animals (including humans) do not produce carotenoids de novo but take them in their diets.

A global perspective on carotenoids: Metabolism ...
Carotenoids comprising carotenes and oxycarotenoids as two main groups are fat-soluble pigments, widely distributed in nature. The distinctive pattern of alternating single and double bonds in the...

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Carotenoids : physical, chemical, and biological functions ...
Molecules formed from carotenoids are given different names in the literature, for instance, carotenoid-derived products, degraded carotenoids (Walberg and Eklund 1998), carotenoid decomposition products (Wang 2004), carotenoid oxidation products, carotenoid oxidative/degradative products (Wang 2004), carotenoid oxidative breakdown products (Bonnie and Choo 1999), oxidative cleavage products ...

1Chapter 1 Formation of Carotenoid Oxygenated Cleavage ...
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However, the compounds with low quenching rate constants occur at higher levels in biological tissues. Thus, carotenoids and tocopherols may contribute almost equally to the protection of tissues against the deleterious effects of 1O2. The quenching abilities of carotenoids and tocopherols were mainly due to physical quenching.

Carotenoids, Tocopherols and Thiols as Biological Singlet ...
physical and chemical properties of carotenoids Ultimately, the diverse biological effects attributed to carotenoids have to be explained in terms of their physical and chemical properties, many of which are shown in Fig. 1.