



Carotenoids, Oxidative Stress and Disease

Guest Editor:

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Message from the Guest Editor

Oxidative stress is involved in the aetiology of many diseases, many of these health issues are related to dietary patterns and the intake of macro- and also micronutrients. However, in addition, plant bioactives have also been shown to play a role, and many of these phytochemicals or secondary plant compounds, including carotenoids.

carotenoids—mostly of plant, but in part of fungal or bacterial origin—are a remarkable and promising group of terpenoids. Their dietary intake and plasma levels have been related to the incidence of diabetes and cardiovascular diseases, and even total mortality. While formerly mostly appraised for their antioxidant properties, quenching reactive oxygen species, it has become apparent that other qualities, such as their action on the cellular level—e.g., via nuclear receptors and transcription factors—do also appear to play a vital role. Thus, it is with great pleasure that I invite you to take part in this Special Issue and together try to describe our state-of-the-art knowledge of carotenoids, oxidative stress and related pathways, and their markers and diseases.

We look forward to your valuable contribution.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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