



Sunscreens and Antioxidants

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Message from the Guest Editors

Solar radiation is as essential for human life as it is important for the stimulation of vitamin D synthesis and well-being. However, an overly high dose of solar radiation leads to cell membrane and DNA damage and to the formation of free radicals such as reactive oxygen species (ROS). Ultra-violet (UV) irradiation can be blocked due to the chemical and physical filters contained in sunscreens. The use of UV-absorbing sunscreens with high SPF tempts consumers to extend their exposure to the sun by several hours without considering that they are not protected in the visible (VIS) and near-infrared (NIR) spectral regions. For these regions, no filters are available. In the VIS spectral region, sunscreen formulations containing filters would color the skin of applicants. ROS need to be tightly controlled in order to prevent their uncontrolled accumulation in the cell; otherwise, they are harmful to metabolic processes and cell structures. The planned Special Issue "Sunscreens and Antioxidants" will focus on the importance of sun protection in the whole spectral range with regard to the prevention of oxidative stress and its biological consequences.





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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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