



Antioxidants and Second Messengers of Free Radicals

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Message from the Guest Editor

There is a lack of general understanding of pathophysiological roles played by reactive aldehydes like malondialdehyde, 4-hydroxynonenal, 4-hydroxyhexenal, acrolein, etc., which are considered also as “second messengers of free radicals”. Being generated mostly by lipid peroxidation, they often form bioactive adducts with macromolecules important for pathophysiology of living cells, thus mimicking the effects of ROS even in the absence of severe oxidative stress.

Therefore, this Special Issue will publish original research papers and reviews on complex aspects of reactive aldehydes and their macromolecular adducts (especially with proteins and nucleic acids) generated during lipid peroxidation and their interference with natural and synthetic antioxidants in physiology of cell and in pathophysiology of various diseases studied by modern bioanalytical methods applied in translational and clinical medicine.





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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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