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The Role of Oxidative Stress in Environmental Toxicity

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Message from the Guest Editor

Oxidative stress refers to an imbalance between the production of reactive oxygen species (ROS) and the ability of a biological system to detoxify or repair the caused damage. The excessive production or inhibition of antioxidant pathways induces a state of oxidative stress in the body. Various factors can induce this process, and in recent decades, the determination of oxidative stress as a mechanism of toxicity of various pollutants present in the environment has been the object of interest due to the various adverse effects it can have, which include DNA damage, lipid peroxidation, protein alterations, and cell death and in turn can trigger pathological processes such as mutagenesis, carcinogenesis, teratogenesis, cardiovascular and neurodegenerative diseases, among others.

In this Special Issue, we aim to compile experimental research that evaluates oxidative stress as a mechanism of toxicity and helps us elucidate the role of oxidative stress in the toxicity of various environmental pollutants. Research on compounds that help neutralize free radicals generated by environmental pollutants is welcome.

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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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