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Environmental Pollution and Oxidative Stress

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Message from the Guest Editor

The effect of environmental pollution on the population is a severe public health problem, mainly in highly populated cities and highly industrialized places. Repeated exposure to environmental pollutants, such as ozone and suspended particles, is directly associated with non-infectious chronic degenerative diseases, as well as with their progression. However, it is demonstrated that air pollution by ozone or suspended particles causes oxidative stress and a chronic inflammatory response that has lost its regulation. Considering the role of oxidative signals in cell evolution and their role in the homeostasis of physiological functions, we can understand why chronic alterations in redox signaling lead to impaired signaling in both cells and the organism. These cause a vicious circle between the state of oxidative stress and the loss of regulation of the inflammatory response in degenerative diseases since, once the degenerative process is triggered, it is not possible to reverse it. Therefore, ozone contaminations and suspended particles are associated with autoimmune, cardiovascular diseases, heart attacks, strokes, cancer, degenerative and neurodegenerative diseases, etc.



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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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