



Paraoxonase in Oxidation and Inflammation

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Message from the Guest Editor

Currently, the existence of three different phylogenetically-related paraoxonases has been reported. All three are lipolactonases that degrade lipid peroxides within the cells and in the circulation. Because of this, the three enzymes play important roles as antioxidants and protect against oxidative stress and the consequent inflammatory reaction. Paraoxonases and their alterations have been related to diseases as important as cardiovascular diseases, obesity, liver diseases, neurological disorders, infectious diseases and cancer. Paraoxonases also seem to play a role in protecting mitochondrial function and the normal functioning of energy metabolism, and are a part of the innate immune system. This Special Issue aims to publish original research papers and reviews on paraoxonases and their relationships with oxidative stress and inflammation and wishes to be an instrument for communication and dissemination of the most recent findings about the role that these enzymes play in human diseases.





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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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