



Paraoxonase Modulation by Dietary Factors: Implications for Health and Disease

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Message from the Guest Editors

Human paraoxonase (PON) is a member of the gene family that includes paraoxonase 1 (PON1), PON2 and PON3. PON1 and PON3 are both associated with high-density lipoprotein (HDL) particles and exert antioxidant and anti-inflammatory properties. PON2 and PON3 are intracellular enzymes that modulate mitochondrial superoxide anion production and endoplasmic reticulum (ER)-stress-induced apoptosis. The pleiotropic roles exerted by PONs have been investigated in pathological conditions. PONs may be involved in molecular mechanisms of cancer development and progression. Due to the properties of PONs, it is of potential interest to identify environmental modulators of the activity and concentration of PONs. Dietary factors may represent one of the environmental factors potentially involved, and this Special Issue focuses on dietary factors that may affect the activity and concentration of PONs in humans. We invite you to submit your latest research findings or a review article to this Special Issue, which will bring together current research concerning paraoxonases and the role that dietary factors can play in the modulation of PONs in both normal processes as well as diseased states.





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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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