



Effect of Antioxidant Therapy on Oxidative Stress In Vivo

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Message from the Guest Editors

Oxidative stress is an imbalance between the production of oxidants and their elimination, leading to disruption of redox signaling and molecular damages. The toxicity of oxidants is balanced by antioxidant systems. Oxidative stress has been associated with many pathological processes, such as diabetes, neurological diseases, cancer. Based on the free radical theory, numerous clinical trials examining single antioxidant supplementation, particularly vitamin E, have been conducted for the prevention and/or treatment of different diseases.

Contributions to this Special Issue may cover all research aspects related, but not limited to:

- The effects of non-enzymatic and enzymatic antioxidants in the prevention/treatment of different diseases;
- The effects of traditional treatment plus antioxidants treatment;
- Proper dose regimen for antioxidant supplement;
- Natural vitamin E compared to synthetic tocopherols;
- Free-radical-dependent vitamin E metabolites as oxidative stress biomarkers;
- Vitamin E and haptoglobin genotype;
- The changes in the expression profiles of genes, proteins, and metabolites following vitamins intervention.





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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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