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Advances in Vitamin E Research

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Message from the Guest Editors

Vitamin E research has progressively evolved from an early emphasis on alpha-tocopherol solely as a lipophilic antioxidant inhibiting lipid peroxidation and oxidative stress. Moreover, early research did not always distinguish between natural alpha-tocopherol (RRR-alpha) and synthetic alpha-tocopherol (all-racemic-alpha). We now recognize that the four tocopherols and the four tocotrienols that comprise the vitamin E vitamers have distinct chemical, stereochemical, and biochemical properties as well as functions independent of their roles as antioxidants. Even after decades of research, there remains much controversy around the risk/benefit ratio of vitamin E supplementation in cancer, cardiovascular disease, metabolic syndrome, type 2 diabetes, aging, and exercise physiology. Future basic, clinical, and kinesiological research will be needed to settle these issues and to further define the potential benefits of vitamin E vitamers.

For this Special Issue, we invite authors to submit novel work or reviews on the importance of advancing basic, clinical, and kinesiological vitamin E research.



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Special Issue



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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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