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Trace Elements Metabolism and Oxidative Stress

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Message from the Guest Editors

Oxidative stress is a part of aerobic metabolism in organisms, whereas trace elements play important roles in many physiological and biochemical processes of metabolism from being involved in the generation of cell membrane potential to serving as co-factors of enzymes. Thus, oxidative stress and trace elements are unavoidably inter-related or even inter-dependent at the cellular, tissue, and body levels of all species including humans. An intricate balance among these dual roles of oxidative stress and trace elements has been evolved in homeostatic systems of all species. Disturbances of their roles, interactions, and(or) regulations are associated with abnormal metabolism, compromised immunity, loss of physiological functions, increased risks of metabolic diseases, and overt injuries or death. Although notable progress has been made in the field, much remains to be explored. Therefore, this special issue is inviting high-quality original research papers and reviews in the interface of oxidative stress and trace elements.



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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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