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Trace Elements Metabolism and Oxidative Stress

Guest Editors:

Prof. Dr. Xingen Lei

Department of Animal Science, Cornell University, Ithaca, NY, USA

Dr. Marko Vatamaniuk

College of Agriculture and Life Science, Cornell University, Ithaca, NY, USA

Dr. Ji-Chang Zhou

School of Public Health (Shenzhen), Sun Yat-sen University, Guangzhou, China

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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 inavoidably 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 homoestatic systems of all species. Disturbances of their roles, interactions, and(or) regulations are associated with abnormal metabolism, compromized immunity, loss of physiological functions, increased risks of metabolic diseases, and overt injuries or death. Although notable progressess have been made in the field, much remains to be explored. Therefore, this special issue is inviting highquality original research papers and reviews in the interface of oxidative stress and trace elements.



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Editor-in-Chief

Prof. Dr. Alessandra Napolitano

Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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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Antioxidants Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/antioxidants antioxidants@mdpi.com X@antioxidants_OA