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From Field to Cell: Redox Mechanisms of Chemical Stressor Toxicity in Biological Systems

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Deadline for manuscript submissions:
15 October 2024

Message from the Guest Editors

The Special Issue focuses on the intricate relationship between redox biology, redox signaling, and the toxicology of chemical stressors, including pesticides, environmental pollutants, and lifestyle. It aims to shed light on how redox processes are influenced by external chemical cues and how this impacts different biological systems. Chemical stressors have the potential to trigger intricate biochemical reactions that disrupt the redox balance, essential for sustaining cellular homeostasis and optimal functionality.

This Special Issue invites scientists to contribute research articles and comprehensive reviews exploring the mechanisms of redox signaling affected by chemical stressors. We are particularly interested in studies revealing how these agents alter redox processes, impact cellular signaling pathways, and contribute to toxicity in different biological systems.

We encourage submissions that cover a range of topics, including but not limited to the identification of new chemical stressors affecting redox balance, mechanistic insights into redox-mediated toxicity, and the implications of redox biology in environmental toxicology.

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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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