



Oxidative Stress, Reactive Oxygen Species and Animal Nutrition

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Message from the Guest Editors

In the process of production, especially modern, intensive-scale farming where high quality and high efficiency are pursued, animals are subjected to a series of adverse stimuli, such as bacterial infections, environmental changes, uncomfortable temperature, feed contamination, and improper transportation. These stimuli eventually translate into an imbalance in redox levels in the body, resulting in oxidative stress. In particular, excessive nutrient consumption can induce lipid peroxidation and hyperglycemia and result in oxidative stress. Conversely, numerous natural and/or synthetic antioxidants, such as micronutrients, plant extracts, and probiotics, have been attracting the attention of researchers and nutritionists for their strong antioxidant capacities.

For this Special Issue, we invite researchers to provide original research articles and reviews that highlight natural antioxidants use and basic mechanisms. We aim to collect and stimulate further studies that offer exciting and novel strategies based on dietary interventions for preventing or alleviating oxidative stress and its associated conditions.





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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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