



Redox Balance in Animal Physiology

Guest Editor:

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Message from the Guest Editor

Antioxidants play a crucial role in animal physiology and health. Animal health is vital for sustainable animal production systems, especially in relation to the mechanisms by which redox balance may influence metabolism, health and welfare. Considering the complexity of the interactions between antioxidants and body systems (genome, proteome, and metabolome), it is feasible that a comprehensive analysis of antioxidants/animal interactions is required to achieve a systematic understanding of the effects of antioxidant supplementation in animals' diets.

This Special Issue welcomes original research and reviews of literature concerning the role of redox balance in the following areas:

- Oxidative stress biomarkers
- Animal health and diseases
- Immune function
- Inflammation
- Animal metabolism
- Animal nutrition
- Animal reproduction
- Mammary gland physiology
- Neonatal physiology
- Gastrointestinal functionality
- Respiratory physiology
- Environmental stress
- Animal welfare
- Transport stress





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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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