



Selenium and Animal Health

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Message from the Guest Editor

Selenium is an essential trace element in the diet of humans and animals. The efficiency of Se assimilation from diet depends on the form used in the diet. It is a component of more than 30 selenoproteins, which play a significant role in the organism.

Selenium deficiency contributes to pathological changes in animals. Low selenium levels can lead to the development of nutritional muscular dystrophy, exudative diathesis and so on. Selenium poisoning is rarely encountered, and it most often results from an overdose of selenium supplements. The most common forms of selenosis are chronic selenosis and acute selenosis.

We invite you to contribute your latest research findings or a review article to this Special Issue, which will bring together current research and critical thinking on selenium actions and properties on animal health.

Your contribution can include either in vitro or in vivo studies relating to any of the following topics: Antioxidative activities of selenium; molecular mechanisms of selenium actions in disease prevention; and the role of selenium in signaling, cell metabolism, cell cycle, cellular stress, and animal diseases.





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Editor-in-Chief

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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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