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Oxidative Stress and Nutrition in Aquatic Animals

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Message from the Guest Editor

The aquaculture sector is one of the fastest animal production fields; however, intensive aquaculture practices can subject cultured animals to stress from environmental, nutritional, and microbial factors, ultimately leading to oxidative stress. An imbalance towards oxidative stress, resulting from a decline in antioxidant defenses or an increase in oxidants, can have deleterious effects on both health and productivity. All organisms have the ability to maintain the redox balance, which primarily relies on two antioxidant systems: enzyme antioxidant system and non-enzymatic antioxidant system. Recent discoveries have revealed that extracts from plants and novel compounds possess antioxidative properties or can regulate the redox balance. As the Guest Editor, I would like to extend an invitation for you to submit your latest research findings or review articles to this Special Issue, which aims to bring together the most current research on antioxidants in aquaculture nutrition.



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Special Issue



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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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