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Oxidative Stress in Aquaculture

Guest Editor:

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Message from the Guest Editor

Various toxic substances present in water or rapid changes in the water environment cause an increase in the production of reactive oxygen species (ROS) and reactive nitrogen species (RNS) in the aquatic organisms living in the water. Most aquatic organisms have developed antioxidant systems to protect them from free radicals, and the production of free radicals exceeding their antioxidant capacity can act as oxidative stress in aquatic organisms, which has various toxic effects on the physiology of aquatic organisms. Therefore, research on oxidative stress in aquatic organisms will be an important topic to understand the physiological and metabolic mechanisms of aquatic organisms and to evaluate the effects of various toxic substances or changes in the water environment. This research topic will evaluate the oxidative stress and physiological effects of various factors such as environmental factors, chemicals or planktonic toxins present in the aquatic environment on aquatic organisms, and discuss various toxic effects and mechanisms on aquatic organisms.

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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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