



Oxidative Stress Responses to Marine Toxins: From Molecular Mechanisms to Ecological Impacts

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Message from the Guest Editor

Acute or chronic exposure to environmental pollutants may produce a number of alterations within aquatic organisms. Although they can tolerate a certain number of short-term pollutant-induced biological disturbances, long-term exposure can deplete repair and defense mechanisms, causing a negative impact on cell organization, known as oxidative stress.

Oxidative stress is an important component of the biological response of marine organisms when exposed to a wide variety of environmental stressors on different scales of time and space. Therefore, oxidative stress is produced when the rate of production of reactive oxygen species (ROS) exceeds the rate of elimination produced by endogenous antioxidant molecules. Thus, this imbalance that leads to the production and accumulation of ROS causes damage to lipids, proteins and the DNA of cells of aquatic organisms.

We invite you to submit your latest research findings or a review article to this Special Issue, entitled: “*Oxidative Stress Responses to Marine Toxins: From Molecular Mechanisms to Ecological Impacts*”.





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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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