

Special Issue

Use of Antioxidant Supplementation in Aquaculture: Impact on Growth, Health, and Product Quality

Message from the Guest Editors

As the aquaculture sector expands, the intensified production conditions often lead to heightened stress and disease outbreaks, posing challenges to the overall productivity and the final product quality. Therefore, maintaining and improving oxidative status becomes crucial. Research indicates that antioxidants play a pivotal role in alleviating oxidative stress. These compounds have become the essential components in aquafeeds due to their influence on fish antioxidant defenses. Beyond stress mitigation, antioxidants show promise in enhancing growth and modulating flesh oxidative stability, thereby impacting the shelf-life of end products. This Special Issue delves into the transformative potential of antioxidant supplementation in aquaculture, specifically exploring its effects on key aspects such as fish growth, health, and product quality. Research topics may include understanding the mechanisms through which antioxidants interact with fish cellular processes, their impact on performance and immune response, their role in increasing fish stress resilience, or their contribution in improving flesh oxidative stability and shelf-life.

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About the Journal

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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