



Oxidative Stress in Fishes and Molluscs

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Message from the Guest Editors

Oxidative stress, known as the production and accumulation of reactive oxygen species (ROS), such as singlet oxygen, hydrogen peroxide, superoxide, and hydroxyl radicals, can damage lipids, proteins, and nucleic acids. Under normal conditions, marine organisms display a powerful set of antioxidant mechanisms (i.e., enzymatic and non-enzymatic) to counterbalance ROS production and avoid oxidative stress and, consequently, damage. Nonetheless, when exposed to stressful environments (e.g., thermal stress, contamination, salinity variation, among others), there is an overproduction of ROS weakening the efficiency of their antioxidant systems.

Fishes and molluscs are among the most ecological and economically important groups of aquatic organisms. Given their life cycle traits, they are exposed to fluctuations of environmental conditions daily, being particularly susceptible to oxidative stress.

We kindly invite the submission of innovative and multidisciplinary studies on the oxidative stress response of molluscs and fish species to multiple stressors under both laboratory and field conditions.





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Message from the Editor-in-Chief

Fishes is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of *Fishes* is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider *Fishes* for your scientific papers and would be pleased to welcome you as one of our authors.

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