



water



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Biomarkers of Environmental Stress in Aquatic Organisms

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Message from the Guest Editors

Dear Colleagues,

Biomarkers are informative tools to measure the interaction between organisms and environmental stressors, including chemical, physical and biological agents. They are defined as molecular, biochemical, cellular and physiological alterations caused by such external stressors and may be used in hazard identification, as well as the assessment of exposure, effect and susceptibility of organisms. In recent years, modern laboratory tools have been making it possible to gain insight into the cellular stress responses of a variety of species to an unprecedented degree. In addition, the promising concept of Adverse Outcome Pathways (AOPs) links mechanistic responses on the cellular level with whole organism, population, community and potentially ecosystem effects and services. This issue is focused on the advances in biomarker development for aquatic organisms, and their application in environmental monitoring, hazard identification, and prospective risk assessment.



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Special issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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