Special Issue

Advances and Current Challenges in Marine Biotoxins Monitoring

Message from the Guest Editor

Programs for monitoring marine biotoxins, aiming at minimize the risk of acute intoxication after consumption of seafood, are being challenged by: i) emergence of new toxins, ii) moving away from biological methods for official control and, iii) harmonization of detection methods and regulatory limits in a world of global trade. Harmful algal blooms have been pointed out as an increasing phenomenon with higher frequency, intensity and geographical distribution. New toxins, such as Tetrodotoxins, Ciguatoxins, and Palytoxins, may represent new environmental threats. In addition to the implementation of liquid chromatography based methods for official control, several other methods characterized by being cost effective, high-throughput, *in situ*, real-time monitoring, semi-quantitative, or technically less complex, have been recently developed, which can be used to support regulators and seafood business operators. This Special Issue aims to initiate a forum on current challenges and advances on marine biotoxins monitoring bringing to light new data on toxic phytoplankton occurrence, toxins dynamics in seafood, their toxicological potential and detection methods.

Guest Editor

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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