Special Issue

Application of Genetical Markers for Assessment of Population Structure of Fish Species

Message from the Guest Editors

Dear colleagues, Knowledge of genetic structure is key to understanding species connectivity patterns and to defining the spatiotemporal scales over which conservation management plans should be designed and implemented. The distribution of genetic diversity greatly influences species ability to cope with and adapt to environmental changes, ultimately determining their long-term resilience to ecological disturbances. Higher genetic diversity leads to greater adaptation possibilities in the challenging times of climate change and overfishing. Their identification represents one of the primary challenges to ensure sustainable harvest. DNA markers offer possibility to identify fish population structure and infer the demographic history of populations. A key question for the application of genetic methods to fisheries management is assessing the level of divergent populations that is required to justify their separate management. Various molecular markers are now being used in fisheries and aquaculture. Assessment of population structure and genetic diversity is essential for both conservation and management strategies of highly exploited and endangered species.

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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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