Special Issue

Distribution and Metabolic Activities of Marine Microbial Communities in Response to Natural and Anthropogenic Forcings

Message from the Guest Editor

Marine ecosystems are experiencing rapid natural and anthropogenic changes. Within microbial loop, microbes can modulate their community distribution, structure, and metabolism to cope with natural/anthropogenic stressors, acting as sentinels of environmental variations. Changes in temperature, pH, water circulation, and nutrient distribution often occur simultaneously, and the effects of these stressors can be combined, resulting in unexpected microbial feedbacks. Moreover, extrapolation of the effects of variations occurring in microbial structure and function to large-scale processes is difficult, and hence microbial responses to environmental changes across a variety of marine ecosystems are far from being predictable. Nevertheless, new observations and experiments, together with analytical advances, may allow us to gain detailed insights into how microorganisms (free-living or particle-attached) are responding to stressors, so contributing to predictions of future scenarios and to guide decision makers.

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Message from the Editor-in-Chief

Journal of Marine Science and Engineering (*JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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