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.

Guest Editor

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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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