Special Issue

Oil Biodegradation and Bioremediation in Cold Marine Environment

Message from the Guest Editor

Petroleum hydrocarbons are released into the marine environment from anthropogenic activities. There is evidence of oil biodegradation occurring at low and sub-zero temperatures but information about to what extent and which microorganisms are involved/contribute to the biodegradation process in the cold marine environment is still scarce. Due to the reasons above, there is an increased need for more information on the microbial community capacity to degrade oil compounds at taxonomic, functional and genomic levels in the cold marine environment.

This Special Issue will publish papers that address: (1) microbial community and metabolic pathways responsible for the degradation of different oil fractions in different marine compartments of the cold marine environment (2) microbial capacity at the taxonomic, functional and genomic levels to respond to and degrade hydrocarbons resulting from the oil spill in the cold marine environment (3) development and application of bioremediation approaches for marine oil spill response in the cold climate and ice-infested areas

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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