Special Issue

Microbial Communities in Methane Cycle in Arctic Region

Message from the Guest Editor

Methane is known to be the most important greenhouse gas. The release of methane into the atmosphere has been noted in many Arctic landscapes: tundra soils, Arctic lakes of various origins and vast coastal areas of the Arctic seas. The composition of the microbial community of the methane cycle, as well as the activity of its functioning, is determined by the factors relating to the influence of the external environment. The pronounced seasonality in the course of all processes associated with the activity of microorganisms is a feature of the Arctic region.

This Special Issue of the journal will publish research results reflecting the composition and structure of microbial communities in the methane cycle in all types of ecosystems in the Arctic region. Manuscripts containing quantitative estimates of the activity of microbial processes, as well as the geochemical consequences of microbial processes in the methane cycle, will also be accepted. The urgent task of the Special Issue is to search for connections between the composition and activity of microbial processes in the methane cycle, on the one hand, and climate change in the Arctic region, on the other.

Guest Editor

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About the Journal

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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