Special Issue

Modern and Fossil Microbial Symbioses in Aquatic Environments

Message from the Guest Editors

In this issue, we attempt to shed light on the symbiosis and mutualism of fossil and modern microbial communities in geobiological processes at the micro- and macroscales. This includes, but is not restricted to, the communities involved in primary production and elemental cycling, in mineral dissolution and precipitation, and in plant and animal-microbe symbioses. For this Special Issue, we welcome the submission of research papers and reviews describing the symbiotic relationships of diverse fossil and modern microbial consortia and the interaction between the different domains of life. We are interested in fossil and modern extreme habitats and complex biofilm–microbial mat ecosystems. We are also looking for research pointing out key players in complex communities in marine sediments or in animal microbiomes. We are also interested in the role of (bacterial) viruses in microbial communities. All methodologies, such as (functional) metagenomics, metabolome studies, an *in situ* analysis of the parameters (macro- to nanoscale), microbial biomarker tracing, structure–functional microscopic techniques, and highly advanced geochemistry analyses are welcome.

Guest Editors

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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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