Special Issue

Genomics of Marine and Aquatic Bacteria: A Focus on Novel Taxa, Diversity and Biotechnological Potential

Message from the Guest Editors

Marine and aquatic bacteria represent an enormous amount of biodiversity and are a valuable source for bioprospecting aims such as the search of novel bioactive compounds, functional foods ingredients, and polymers. Our knowledge regarding the bacterial world has been greatly advanced by exploring bacterial genome sequences, especially in bacterial systematics, genetic diversity, and microbial evolution. Advances in genomics promote the application of genetic information of bacteria in virtually unlimited areas. To describe new taxa, environmental microbiologists nowadays have to combine culture-dependent studies with genome sequence analyses. The research of bacteria recovered from underexplored, remote, and extreme environments, such as arctic seas, the deep-sea, or underground waters and sediments, is a challenge for the understanding of microbial diversity, its conservation, and further biotechnological use. We firmly believe that new taxa will result in new genes, new knowledge, and new opportunities.

Guest Editors

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Deadline for manuscript submissions

closed (15 August 2023)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/160716

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"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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