Special Issue

Exploration of Marine Microbial Resources

Message from the Guest Editor

Marine ecosystems—spanning hydrothermal vents to polar ice shelves—harbor the planet's most phylogenetically and metabolically diverse microbial communities. Crucially, these organisms thrive under extreme conditions (e.g., high pressure, salinity gradients, and nutrient scarcity), driving evolutionary innovations unmatched in terrestrial environments. Consequently, they serve as vital sources of structurally novel natural products and industrially robust enzymatic tools. Nevertheless, metagenomic and genomic studies reveal that marine environments still harbor vast reservoirs of uncultured microorganisms and silent biosynthetic gene clusters (BGCs) awaiting targeted interrogation via advanced culturomics and activation strategies. For this Special Issue of *Microorganisms*, we are pleased to invite you to submit research articles and review articles related to marine microorganisms, including but not limited to biodiversity, natural product discovery and biosynthesis, and biotechnological applications. By bridging genomics, chemistry, and synthetic biology, we aim to catalyze transformative advances in drug discovery, industrial enzymology, and sustainable biotechnology.

Guest Editor

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Deadline for manuscript submissions

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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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