

Special Issue

Diversity and Dynamics of Microbial Communities in Marine Ecosystems

Message from the Guest Editors

The ocean is the birthplace of life, and its biodiversity far exceeds that of terrestrial organisms. Marine microorganisms have unique characteristics. They not only provide mankind with a wide variety of natural products exhibiting complex chemical composition and specific physiological activities, but also play a significant role in marine environment protection and biogeochemical cycling. Further, with increasing human activities, many pollutants and pathogens enter the coastal oceans, which significantly change the ecology of the local environment. To this end, the development and utilization of marine microbial resources and the protection of the marine environment are of great significance. This Special Issue aims to gather insightful contributions on the diversity and dynamics of microbial communities from coastal to oceanic and from the sea surface to the deep sea, as well as on the impact of riverine inputs, inshore recreational water bodies, and aquaculture on coastal ecosystems. For further reading, please follow the link to the special issue website at: https://www.mdpi.com/journal/water/special_issues/microbial_marine_ecosystem

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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