Special Issue

Microbial Interactions in the Phycosphere

Message from the Guest Editor

The phycosphere represents one of the most dynamic and ecologically critical microenvironments in aquatic ecosystems. As primary producers, algae form the base of aquatic food webs, and their interactions with co-occurring associated microbes (including bacteria, archaea, viruses, fungi, and protozoa) shape diverse processes, ranging from global biogeochemical cycling to phytoplankton bloom dynamics, as well as the ecological health of marine and freshwater habitats. Despite decades of research, the complex nature of these interactions—their molecular mechanisms, ecological consequences, and responses to environmental changes—remains incompletely resolved. It is within this context that we are launching this Special Issue, "Microbial Interactions in the Phycosphere".

Guest Editor

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Message from the Editor-in-Chief

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