Marine Microbiology: Facets & Opportunities
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Abstract:
The book titled “Marine Microbiology: Facets & Opportunities” is an attempt to bring together some facets of marine microbiology as have been made out by many contemporaries in particular from the tropical marine regions. There are 18 contributed chapters put together in this Book. These chapters have been written by actively working researchers and are hoped to provide useful insights on ecology and certain applied aspects of marine microbes in particular of bacteria, fungi and protozoan microplankton. Although this volume may not be very exhaustive and all encompassing, it is believed that it has all the ingredients to stimulate the readership to appreciate and adapt the invaluable information that has been provided by these experts.

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Marine Microbiology. The role of microorganisms in the oceans; metabolic diversity; methods in marine microbiology; interactions of microbes with other microbes, plants and animals; biochemical cycling, pollution and water quality; microbe-mineral interactions; extremophiles. Academics. BARTLETT, DOUGLAS. Research at the intersection of biological and microbial oceanography and functional genomics. Azam Lab. Studies the ecology of marine microbes, their diversity, and their population dynamics. Barbeau Laboratory: Marine Trace Metal Biogeochemistry. Focuses on the biogeochemical cycling of trace metals in marine systems. Bartlett Lab. We examine the diversity and activity of microbial life in the deep sea, including within the deepest ocean trenches. This Book, “Marine Microbiology: Facets & Opportunities” is, thus, an attempt to bring together “some” facets of marine microbiology as have been made out by my many contemporaries in this part of the world. Various contributed chapters put together in this Book are hoped to provide useful insights on ecology and certain applied aspects of marine microbes in particular of bacteria, fungi and protozoan microplankton. These sentences are apt to sum up and to propose that the ubiquitous microbes must be doing something mainly to keep themselves alive and when they do so, there may be consequences that are normally beneficial, sometimes deleterious, to the ecosystem they exist in. Marine microbiology has become the subject of much commercial interest. Compounds with commercial potential as nutritional additives and antimicrobials are being discovered from marine bacteria, actinomycetes and fungi. For example the burgeoning marine nutraceuticals market represents millions of dollars annually, and the industry is still in its infancy. Employment opportunities are available from the bachelor to the doctorate level, with greater independence, decision-making responsibility, and income at the higher levels. see also Bony Fish; Cartilaginous Fish; Coral Reef; Crustacean; Estuaries; Ocean Ecosystems; Plankton. Lisa Nicole Saladin and Kenneth S. Saladin.