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interaction between the model coral pathogen *Vibrio coralliilyticus* and its coral host *Pocillopora damicornis* at unprecedented spatial and temporal scales is provided and evidence that infection in this system occurs following ingestion of the pathogen and may then progress through the gastrovascular system. Coral reefs in the microbial seas is the first book to recount this story complete with introductions to the coral reef ecosystem. 21st century metagenomic research tools and the coral's the marine microbiome is composed of the three domains of life: bacteria, archaea, and eukarya, as well as viruses, all of which in dazzling numbers and diversity. All of the known microbial lineages are represented and many are exclusively found in the ocean and there is little doubt that life originated in the ocean. In this rich study of microbial oceanography, we meet the extremeophiles of a mortal earth: an earth better named ocean where deep sea dwelling heat-loving archaea are dredged to tell stories of unlikely kin: extraordinary technology planktonic globalizers and hawaiian indigenous activists. Marine microbial communities are engines of globally important processes such as the marine carbon, nitrogen, and sulphur cycles. Recent data on the structures of these communities show that about 70 percent of the ocean's microbes live in the dark open ocean. Here bacteria are more likely to be efficient swimmers with tails called flagella, a necessity for avoiding hungry predators. Others cling to falling masses of dead particles, the decaying matter, a perfect source of nutrients. Thermophile, halophile, alkalophile, psychrophile, piezophile, and polyextremophile microorganisms have been isolated from these marine environments. They proliferate thanks to adaptation strategies involving diverse cellular metabolic mechanisms. Microbes can decompose biodegradable plastics on land, rivers, and seashore. However, it is unclear whether deep sea microbes can degrade biodegradable plastics in the extreme environment we live in. A microbial world: the ocean is home to innumerable microbes so many that about 98 percent of the ocean biomass is

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