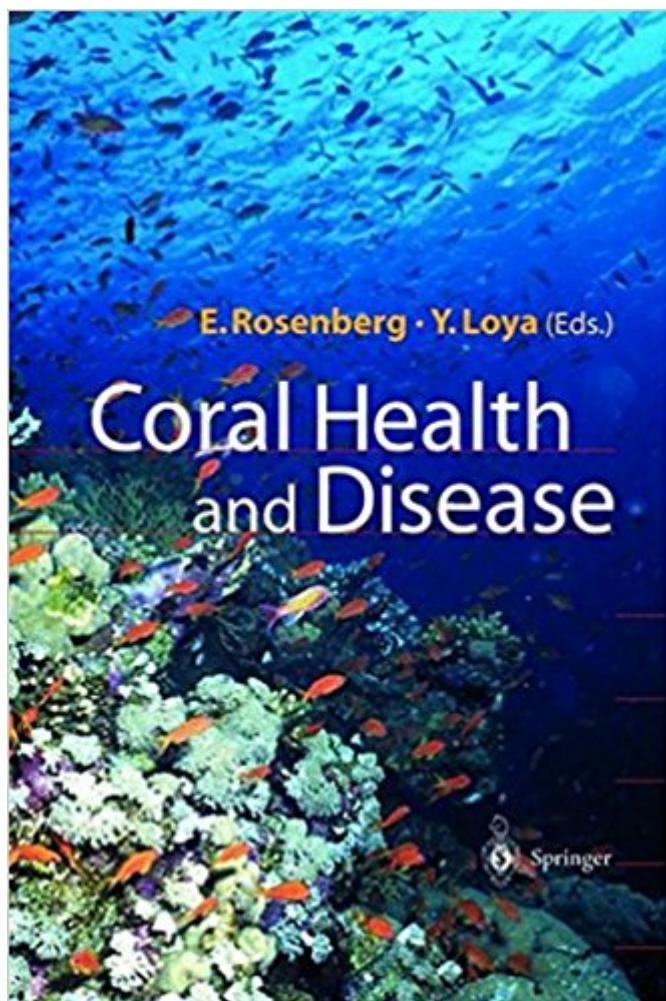


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# Coral Health And Disease



## Synopsis

This book opens with case studies of reefs in the Red Sea, Caribbean, Japan, Indian Ocean and the Great Barrier Reef. A section on microbial ecology and physiology describes the symbiotic relations of corals and microbes, and the microbial role in nutrition or bleaching resistance of corals. Coral diseases are covered in the third part. The volume includes 50 color photos of corals and their environments

## Book Information

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Coral reefs constitute the most spectacular and diverse ecosystems in the marine environment. They form reservoirs of the highest biological diversity, including genetic resources and bio-active compounds. Unfortunately, coral reefs are also among the most heavily degraded marine ecosystems. Over the last two decades, coral reef communities have been experiencing increasingly stressful conditions due to a combination of natural and anthropogenic detrimental factors. Coral diseases are among the most recent in a series of threats (e.g. coral bleaching, over exploitation of fish stocks, destructive fishing practices and coastal developments) that is challenging the resilience of coral reef communities. During an international meeting on coral diseases held in Eilat, Israel, in 2003, leading scientists presented reviews and recent results of laboratory research and in situ observations in order to assess the status of coral health and to understand the disease mechanisms. The most relevant papers are now presented in Coral Health and Disease. The book starts with several case studies of reefs, which strongly differ regionally, e.g.

the Red Sea, Caribbean, Mediterranean, Gulf of Mexico, Japan, western Indian Ocean and the Great Barrier Reef. The second part on microbial ecology and physiology contains contributions describing the symbiotic relations of corals and microbes, the microbial role in nutrition and bleaching resistance and the antibacterial activities of corals. Particular coral diseases, such as aspergillosis, white pox, black, yellow and white band diseases are treated in the third part. Finally, different hypotheses of the mechanisms of coral bleaching, including a projection of the future of coral reefs, are discussed.

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