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Autore	Peixoto Raquel S
Titolo	Coral Reef Microbiome // edited by Raquel S. Peixoto, Christian R. Voolstra
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031766923 303176692X
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (588 pages)
Collana	Coral Reefs of the World, , 2213-7203 ; ; 20
Altri autori (Persone)	VoolstraChristian R
Disciplina	577.6 577.7
Soggetti	Freshwater ecology Marine ecology Biodiversity Ecology Oceanography Conservation biology Microbial populations Microbial ecology Freshwater and Marine Ecology Biooceanography Conservation Biology Microbial Communities Microbial Ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I. Introduction -- Chapter 1. Introduction to Coral Reef Microbiome -- Part II. Microbial Compartments in the Reef and Coral Holobiont -- Chapter 2. Microbial Compartments in the Reef and Coral Holobiont – Symbiodiniaceae -- Chapter 3. Bacteria and Archaea within Coral Reef Ecosystems -- Chapter 4. Coral Skeleton Dwelling Endolithic Algae: Ostreobium and Its Biology -- Chapter 5. Microbial Compartments in the Reef and Coral Holobiont – Viruses -- Chapter 6. Microbial Compartments in the Reef and Coral Holobiont - Fungi and Fungi-like

Entities -- Part III. Emergent Complexity -- Chapter 7. The Coral Holobiont -- Chapter 8. Complexity of the Coral Microbiome Assembly -- Part IV. Ecosystem-Scale Microbiology -- Chapter 9. Microbial Processes and Nutrient Uptake in the Coral Holobiont and Reef Ecosystems -- Chapter 10. Ecosystem Microbiology of Coral Reefs -- Chapter 11. Coral Reef Microbialization and Viralization Shape Ecosystem Health, Stability, and Resilience -- Part V. Host-Microbial Interactions as Culprit and Remedy -- Chapter 12. When Microbial Interactions Go Wrong: Coral Bleaching, Disease, and Dysbiosis -- Chapter 13. Microbial-based Therapies to Restore and Rehabilitate Disrupted Coral Health -- Chapter 14. Considerations, Ethics and Risk Assessment for the Development and Application of Microbial-based Therapies; Introducing a Rights-based Framework for Reef Communities -- Part VI. Microbiome Biotechnology and Future Outlook -- Chapter 15. Beyond Restoration: Coral Microbiome Biotechnology -- Chapter 16. Building Coral Reef Resilience through Assisted Restoration.

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## Sommario/riassunto

Microorganisms, the catalysts of all biogeochemical cycles on Earth, are the origin and essence of life—an invisible yet powerful force sustaining all living organisms. The health of both individual organisms and ecosystems critically depends on functional microbiomes that drive essential processes such as nutrient cycling, pathogen control, detoxification, and resilience. However, like their macroorganism counterparts, these beneficial microbes are vulnerable to environmental changes, and their decline often accelerates ecosystem degradation. Anthropogenic impacts have profoundly altered and often degraded most ecosystems and their microbiomes, with coral reefs being no exception. Stony corals, the foundation of these vibrant ecosystems, are among the most threatened marine organisms. Shifts in coral microbiomes toward dysbiotic (harmful) assemblages are increasingly recognized as both a cause and consequence of coral mortality. In response, active intervention strategies are being developed to restore and rehabilitate degraded microbiomes, aiming to restore and re-establish the beneficial microbial communities that sustain the health of both their host organisms and ecosystems. The success of these approaches depends on our understanding of the distribution, ecological roles, and interactions between corals and their associated microbiomes, as well as how environmental factors influence them and their potential to either amplify or mitigate anthropogenic impacts. This book delves into these topics, examining how they shape coral holobiont assemblages and offer pathways for active intervention. In addition, this book provides a practical, tailored, and adaptable roadmap for stakeholders to integrate the latest insights into a broader One Health framework and ecosystem perspective.

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2. Record Nr.	UNINA9910973243403321
Autore	Audi Robert <1941->
Titolo	The architecture of reason : the structure and substance of rationality / / Robert Audi
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2001
ISBN	0-19-803235-8 9786610481590 1-4237-6221-5 1-280-48159-5
Descrizione fisica	xvi, 286 p
Disciplina	128/.33
Soggetti	Reason
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Theoretical reason -- pt. 2. Practical reason -- pt. 3. Rationality and relativity.
Sommario/riassunto	The literature on theoretical reason has been dominated by epistemological concerns, treatments of practical reason by ethical concerns. This book deals sets out a comprehensive theory of rationality applicable to both practical and theoretical reason. In both domains, Audi explains how experience grounds rationality, delineates the structure of central elements, and attacks the egocentric conception of rationality. He establishes the rationality of altruism and thereby supports major moral principles. The concluding part describes the pluralism and relativity his conception of rationality accommodates and, taking the unified account of theoretical and practical rationality in that light, constructs a theory of global rationality--the overall rationality of persons."Robert Audi's new book is magisterial in tone and subject matter.It displays his customary wisdom, restraint, and balanced judgement. And, like his other works, it is written impeccably, indeed elegantly."--Panayot Butchvarov, University of Iowa.