

This book explores the current state of knowledge about microbial evolution under extreme conditions addressing questions from the perspectives of different extreme environments, organisms, and evolutionary processes, such as: What is known about the processes of evolution that produce adaptations to extreme conditions? Can this knowledge be applied to other systems? What requires future research?

- Specifically addresses microbial evolution from the perspective of extreme environments
- Includes specific discussion about extremophiles in relation to evolutionary processes

THE SERIES LIFE IN EXTREME ENVIRONMENTS

The series publishes topical volumes in the rapidly growing field of microbial life in extreme environments. This includes all habitats at the edge of survivability ranging from equatorial to polar regions, from marine to terrestrial environments and from surface to deep ecosystems. Environmental niches that are for instance characterized by extraordinarily hot, cold, acidic, alkaline or dry conditions, or which are subjected to high salinity, radiation or pressure, are inhabited by extremophilic microorganisms. The vast majority of these extremophiles, representing numerous and diverse lineages from across the three domains of life: Bacteria, Archaea and Eukarya. Special emphasis is placed on the understanding of the structure and function of microbial communities in extreme environments, their life strategies and adaptation mechanisms as well as their reaction to changing environmental conditions. This book series will be a useful reference for advancing our understanding of the origin of life and for exploring the biotechnology potential of these fascinating microorganisms.



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