

This book will highlight advanced techniques used for studying microorganisms in extreme environments. Recent technological leaps in the study of microorganisms in the environment now make it possible to comprehensively study microbes in the environment. Extreme environments could benefit from the application of these techniques, but many challenges such as low biomass, low activity and slow growth has prevented their wide adoption.

- ▶ Up-to-date on advanced state-of-the-art techniques in extreme environments
- ▶ Full color illustrations

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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