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Advances in the Structure and Function of Microbial Communities

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Message from the Guest Editors

This Special Issue, on "Advances in the Structure and Function of Microbial Communities", aims to illuminate the intricate dynamics shaping microbial ecosystems and their pivotal roles in various environments. With a focus on recent advancements, this initiative seeks to bridge gaps in our understanding of microbial community structure and function, offering a platform for interdisciplinary exploration. Through cutting-edge research, this Special Issue endeavors to unravel the complex interactions driving community assembly, diversity, and stability. Moreover, it strives to elucidate the functional contributions of microbial communities to ecosystem processes, such as nutrient cycling, biogeochemical transformations, and host–microbe interactions. Moreover, by showcasing innovative methodologies, theoretical frameworks, and empirical findings, this Special Issue aims to catalyze further insights into microbial community ecology and inform strategies for sustainable resource management and environmental stewardship. Prospective authors are invited to contribute their expertise to this collective endeavor, driving forward the frontier of our knowledge on microbial ecology.



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Special *Issue*



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Message from the Editor-in-Chief

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