

Special Issue

Beneficial Biofilms: From Mechanisms to Applications

Message from the Guest Editors

Although biofilms are often associated with pathogenicity, beneficial microbial biofilms play crucial roles in environmental sustainability, agriculture, industry, and health. These structured communities exhibit enhanced stress resistance, metabolic cooperation, and functionality in comparison to planktonic cells. This Special Issue highlights cross-disciplinary advances in harnessing beneficial biofilms beyond conventional harmful models. We invite contributions exploring novel mechanisms, ecological functions, and innovative applications of beneficial biofilms.

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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