

Special Issue

Novel Antimicrobial Approaches in Biofilm Control in the Food Industry: Future Perspectives

Message from the Guest Editors

Microbial growth and biofilm formation on surfaces are of critical concern in many different environments, especially in the food industry, as they represent important permanent sources of contamination. This Special Issue aims to provide insights into novel approaches for biofilm prevention/control in the food industry, as alternatives to current cleaning and disinfecting agents. This Special Issue covers a range of following topics: antimicrobial efficacy of peptides, biosurfactants, bacteriophages, extracellular polymeric substances, matrix-degrading enzymes, nanoparticles, plant extracts, and essential oils and their bioactive compounds. This Special Issue also elucidates their modes of action and examines the factors that influence their activity. Additionally, readers will gain insights into the application of combined treatments (with different antimicrobial agents) that may have a synergistic effect on microbial biofilms in industrial settings, while also reducing the negative environmental impacts of conventional biocides.

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About the Journal

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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