Special Issue

Application of Antimicrobials and Biofilm-Associated Infections

Message from the Guest Editor

This Special Issue on the "Application of Antimicrobials and Biofilm-Associated Infections" aims to address the management and eradication of biofilm-associated infections. Biofilms are surface-adherent and aggregated structured communities of bacteria encased in extracellular polymeric substances (EPSs), which shield them from both host immune responses and antimicrobial treatments. Moreover, traditional antibiotics often prove inadequate in eradicating biofilm-associated infections due to the physiological states of the bacteria. The multifaceted interactions within biofilms such as microbial synergy, quorum sensing, and the matrix's protective role against therapeutic agents contribute to their resilience. Therefore, innovative strategies targeting multiple pathogens in mixed populations and considering the multifaceted interactions that are established in the biofilm community need to be evaluated. Thus, we invite researchers to contribute original articles, reviews, and clinical studies that explore novel approaches, clinical implications, and the underlying biological mechanisms related to biofilms and antimicrobial application.

Guest Editor

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"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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