Special Issue

The Latest Research on Microbial-Associated Biofilm

Message from the Guest Editor

A biofilm is a consortium of microorganisms' attachments to an abiotic or biotic surface within a matrix of extracellular polymeric substances (EPS). The capability to develop biofilms is a significant virulence factor of several microbes. Hence, high concentrations of antimicrobial compounds, rapid medical intervention, and the replacement of infected devices are needed to manage biofilm infections. Major surgery or toxicity issues are sometimes observed when replacing a device and using antimicrobial therapy. The nano-sized delivery system has been established as a complementary method to enhance the efficacy of antifungal agents toward biofilms. The efficient penetration abilities of the NCs are helping to increase drug potency against microorganism infections. Hence, the effective accumulation of NCs at infected sites reduces the side effects on the systemic circulation in a normal body and improves the bioavailability of fungicides.

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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