Special Issue

Microorganisms and Public Health: Natural Compounds and Modern Technologies to Study for Their Control

Message from the Guest Editors

In recent years, the spread of antibiotic resistance in the environment and in communities where many microorganisms (as well as producer biofilms) are involved has stimulated the development of innovative strategies that can solve this problem. Polymicrobial infections caused by a mixture of bacteria and fungi are a complex public health problem, and they represent an additional challenge to find an efficient treatment strategy. Many infections are caused by microorganisms that resist response to conventional treatment. This ongoing process poses the most dangerous threat to the effectiveness of existing antibiotics and antifungal substances, which is why research is needed to find more effective alternative treatments. It is necessary to develop new antimicrobial agents and new technologies capable of inhibiting the formation or destroying mature biofilms, thereby increasing the susceptibility of microbes to antibiotics.

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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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