Special Issue

Innovative Approaches for Biofilm Control and Eradication

Message from the Guest Editors

The biofilms are commonly found on surfaces in technical systems, such as drinking water and sewage systems, and in the food as well as pulp and paper industries, where they can cause biofouling, corrosion, and risk of contamination of water, food, or other products. Moreover, the presence of biofilms in any kind of system (clinical or industrial) can serve as a reservoir for pathogenic microorganisms and as a potential source for the dissemination of antimicrobial resistance. A major focus of this Special Issue is placed on: i) anti-biofilm molecules (e.g., quorum-sensing inhibitors, enzymatic disruption, herbal active compounds, chelating agents, antimicrobial peptides, and synthetic chemical compounds); ii) drug delivery systems; iii) bio- and nanomaterials; iv) surface modification, conditioning, and coating; v) biological approaches (e.g., probiotics); vi) physicochemical approaches; vii) bioelectric approaches; and xiii) biosurfactants. Our aim is to collect and disseminate some of the most significant and recent contributions in the interdisciplinary areas of microbiology, chemistry, pharmacology, material science, nanotechnology, and electronics.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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