Special Issue

Trends and Perspectives in Bacterial Biofilms

Message from the Guest Editors

Bacterial biofilms are complex aggregates of single or multiple bacterial species residing in an exopolysaccharide matrix that adhere to biotic or abiotic surfaces. Adherent cells are well known for their resistance to various antimicrobial agents and environmental stresses. Therefore, biofilms pose significant challenges when pathogenic bacteria or fungi adhere to medical devices and wounds, causing chronic infections that are difficult and sometimes impossible to treat. Bacterial biofilms pose a significant hazard not only in the medical field but also in other fields such as food safety and water quality. For this reason, improvements in microbiological control are needed to facilitate the use of novel, rapid, and easy-to-use methods to detect and eradicate microbial biofilms. This Special Issue welcomes original research and reviews that address, but are not limited to, biofilm formation and strategies to control and eradicate microbial biofilms.

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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.

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