Special Issue

Current Trends in Exploiting Molecular Signaling in Bacteria and Host Immunomodulation

Message from the Guest Editors

Infectious diseases are one of the biggest threats to humankind, and despite the fact that we have been studying infectious diseases for over a century, there is still a lot to be learn. With the discovery of antibiotics, life expectancy increased significantly; unfortunately, due to their overuse/misuse they are no longer as effective, creating an imperative need to develop novel strategies to be applied in vaccine and therapeutic development. The goal of this Special Issue is to provide a platform to exchange ideas, that demonstrate that bacteria can sense and respond to multiple stimuli, including other bacteria, other microorganisms, and even host immunity. We anticipate that this Special Issue will be the source of many novel ideas to come for the future development of vaccines and therapies that can even be applied to multiple infections. Keywords include, but are not limited to:

- quorum sensing
- bacterial signaling
- host immunity
- immunomodulation
- host–pathogen communication
- biofilms
- vaccines

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About the Journal

Message from the Editor-in-Chief

"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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