Special Issue

Bacterial Responses to Environmental Stress and Their Specific Contribution to *Escherichia coli* and *Vibrio* spp. Survival and Virulence 2.0

Message from the Guest Editors

This Special Issue is the continuation of our 2020 Special Issue. Since some *E. coli* and *Vibrio* spp. are pathogenic to humans and marine organisms essential for sea food industry (e.g., shrimps, mussels and fish), their increasing antibiotic resistance, appearance of new multidrug-resistant strains, and fast adaptation to climate change and polluted environments increase public awareness and concern. Given the above trends, further characterization of bacterial stress responses essential for cell adaptation and host–pathogen interactions could help to identify new drug targets and develop efficient tools to control the presence and virulence of these pathogens in natural and artificial settings. The purpose of this Special Issue is to attract new research articles that address the key mechanisms and strategy adopted by *E. coli* and *Vibrio* spp. to cope with single and multiple stresses that affect their capacity to survive and elicit infections. **Keywords:**

- bacterial stress responses
- host–pathogen interactions
- climate change
- adaptation mechanisms

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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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