



Marine Vibrios: Antibiotic Resistance and Application

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Message from the Guest Editors

Dear Colleagues,

The genus *Vibrio* comprises Gram-negative bacteria that are halophilic, mesothermal, and acid-intolerant. Several vibrios are major pathogens that not only threaten fish and the aquaculture industry but also pose a significant health risk to humans. Cephalosporin, tetracycline, fluoroquinolone, or combinations of medications are currently the most popular treatments for vibrio infections. However, several studies have shown that vibrios have developed drug resistance to these current treatment options. As global drug resistance spreads, future marine vibrio bacteria may develop drug resistance to the above antibiotics, posing a greater threat to human health. Until now, drug resistance research has mainly concentrated on medical care or domestic research in different countries, and research collaboration on drug resistance in the seawater environment has not yet been completed. To deal with a potential future crisis of marine vibrio resistance, scientists from various fields around the world must work together to overcome this dilemma.

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