Special Issue

Biosensors for Rapid, High-Throughput and Sensitive Detection of Pathogens in Environmental, Food and Clinical Testing

Message from the Guest Editor

Pathogens are the main concern in food safety, clinical monitoring and environmental protection. The main common pathogens include Salmonella, Vibrio parahaemolyticus, Bacillus cereus, Escherichia coli and so on. Screening of these pathogens is key to ensure food, clinical and environmental safety. However, the development of assays and instruments which can shorten the detection time is required, thereby providing an early warning of pathogen risks. *Biosensors* have been applied in the rapid detection of pathogenic bacteria, disease diagnosis, imaging research and so on. Nevertheless, there is a growing demand for food-borne pathogen *biosensors* or biochips that are robust, easy to use and, more importantly, mass-producible. This Special Issue focuses on the construction of phages, antibodies or nucleic acid probe-based *biosensors*, together with their recent advances in the detection and application of food-borne pathogens. We invite submissions of research that will help to advance the field of biosensor technology and its application for high-throughput, rapid and sensitive analysis of pathogens.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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