Special Issue

Electrochemical Sensors for Biological Detection

Message from the Guest Editors

Electrochemical sensors have been widely used to detect biological molecules or events. This technology can detect biomarkers, pathogens, drug residues, etc., and has important applications in biomedical diagnostics, food safety monitoring, environmental pollution detection, and other fields. In addition, electrochemical sensors have advantages such as real-time monitoring, simplicity, speed, and low cost, providing new technical means and solutions for research and application in biological detection. Therefore, researching and developing electrochemical sensors is of great significance for advancing biological detection technology improving the accuracy and sensitivity of biological detection. We welcome reviews and research articles related (but not limited) to the following topics:

- Clinical biomarkers, environmental indicators, and food component biomonitoring.
- Novel target and biological recognition elements.
- Novel identification and signal transfer processes.
- Interface mechanisms of electrochemical biosensors.
- Electrode surface treatment and coating.
- Electrochemical biosensor applications in biological detection.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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