Special Issue

Point-of-Care Biosensors for Medical Diagnosis

Message from the Guest Editors

Dear Colleague, Infectious diseases such as dengue, human immunodeficiency virus (HIV) and malaria have become the leading causes of death in the world. Recently, the COVID-19 outbreak has become a global pandemic. The deleterious effects of these viruses have prompted the development of point-of-care (POC) biosensors for rapid testing to curtail the spread of diseases. With advances in microfluidic technologies, it is possible to detect disease-specific biomarkers (e.g., proteins, nucleic acids, etc.) with typically robust, low-cost and portable biosensors, such as chip-based and paper-based biosensors. These biosensors could potentially substitute the conventional bulky and expensive diagnostic systems (e.g., microplate readers, thermocyclers, etc.) This Special Issue aims to discuss the recent advances in POC biosensors for medical diagnosis. The main topic is related but not limited to:

- point-of-care biosensors
- paper-based biosensors
- chip-based biosensors
- medical diagnosis
- biomarkers
- nucleic acids
- antibodies and antigens

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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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