Special Issue

Cell-Based Biosensors for Rapid Detection and Monitoring

Message from the Guest Editor

Cells as biorecognition elements have many advantages, such as sensitivity and rapid response to various stimuli. Cell-based biosensors represent one of the most advanced and, at the same time, challenging scientific and technological domains in analytical and diagnostic sciences.

This Biosensors Special Issue on “Cell-Based Biosensors for Rapid Detection and Monitoring” is intended to be a timely and comprehensive issue on very recent and emerging technologies in the fascinating field of cell-based biosensors for the rapid detection of molecules such as biomarkers, environmental pollutants, etc. and/or monitoring of cell physiology in response to pharmacological or environmental stimuli. Topics include but are not restricted to cell-based methodological approaches, synthetic cell manufacturing (targeted genome editing, genetic circuits, membrane engineering, etc.), integration of cell-based biosensors into platforms, and current applications and perspectives for cell-based biosensors and analytical devices for toxicology and drug research, such as lab-on-a-chip or organ-like cultures. Research papers, short communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

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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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