



Biosensing for Therapeutic Drug Monitoring

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Message from the Guest Editor

Dear Colleagues,

This Special Issue is intended to respond to and meet the needs for the development of biosensing platforms and assays capable of screening, analyzing, dosing or monitoring concentrations, or to assess the toxicity level of compounds with potential pharmaceutical properties. Biosensors for laboratory-use microfluidic lab-on-chip and point-of-care devices are expected, as well as their development strategies, their sensing interfaces designed and based on nanostructured materials or polymers, immobilization procedures for the bio-recognition elements such as DNA, enzymes, antibodies, etc. Additionally, attention will be paid to applications of these biosensors for fundamental investigation of the molecular interactions, binding affinity, and kinetics as key parts of the drug discovery and monitoring processes. Classical detection techniques such as electrochemical, electronic, optical, magnetic, or piezoelectric methods as well as new emerging technologies are welcome. The main topic is related but not limited to:

- biosensor
- lab-on-chip
- point-of-care
- drug
- screening
- toxicity
- monitoring
- electrochemistry
- spectroscopy





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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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