biosensors

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Label and Label-Free Aptasensors

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closed (31 January 2023)

Message from the Guest Editors

Dear Colleagues,

Depending on the mechanism of sensing, aptamer-based sensors are classified under label and label-free formats. The labels can either be radioactive, fluorescent-active, electro-active molecules, metallic complex, nanoparticles, enzyme, or antibodies with detectable probes. In the case of label-free aptasensors, the aptamer is directly incorporated onto the transducer surface, which generates the analytical signal against its physiochemical interaction with the target analyte. Thus, the generated signal is measured in correlation to the analyte's concentrations, whereas in the labeled apatsensing formats, the signals measured are usually generated from notable changes in the labelled/tagged moieties. Aptamer-based sensors have played an important role in various fields, such as environmental, agriculture, biomedical, and forensic applications. The main topics of this issue is related but not limited to:

- biosensors
- aptamers
- labelled aptamers
- label-free aptamers
- electrochemical sensors
- optical sensors
- colorimetric sensors
- aptamer-based theranostics
- chemiluminescence sensors

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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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