



DNA Based Biosensors

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Message from the Guest Editor

Dear Colleagues,

Biosensor research has undergone rapid growth in recent years, offering new concepts in DNA biomarker recognition, miniaturization, multiplex analysis, and readout signal enhancement. Remarkable progress has been achieved over the past few decades in creating biosensors and assays for DNA detection. This Special Issue will present the latest trends of DNA biosensors for applications. Topics of interest include but are not limited to the following:

- Creation of low-cost portable DNA biosensors for in situ measurement;
- New DNA immobilization strategies for optical, electrochemical, magnetic, and acoustic transduction;
- DNA biosensors with integrated nanomaterials;
- Novel DNA biomarker discovery and their detection;
- Aptamer-based biosensors;
- Design and development of DNA probes: the rational designed DNA probes;
- Synthetic nucleic acid polymers application in the biosensor field;
- G-quadruplex-based aptasensors;
- “Lab-on-a-chip” sensors;
- Point-of-care devices and online monitoring;
- Paper-based biosensors;
- Wearable biosensors.





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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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