Special Issue

Editorial Board Members' Collection Series: Aptamer Biosensors

Message from the Guest Editors

Since the discovery of the SELEX method in the nineties, the emergence of aptamers as an interesting alternative to antibodies bloomed in the biosensors community. Their strong advantages as simple oligonucleotides have been widely documented: the in vitro selection of various targets from small molecules to whole cells, the ease of chemical synthesis and modifications, and the stability and cost to facilitate their integration in biosensors. This collection series on aptamer biosensors aims at setting the current state of the art in the domain and describing the remaining hurdles to reach the full potential of aptamers.

- The improvement in the selection method: diversity of targets and quality of aptamer characterization.
- The modification of aptamer sequences for grafting on diverse surfaces or for improved performances and additional properties.
- The integration in biosensors: diversity of transduction methods from electrochemical to optical and proximity to the end-user with point-of-care devices or wearable biosensors.
- The applications of aptamer biosensors: from the diagnostics for health to the environment and quality control.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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