

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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Deadline for manuscript submissions

closed (25 March 2024)



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/147225

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