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Electrochemical Aptasensors

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Deadline for manuscript submissions:

closed (30 November 2021)

Message from the Guest Editor

An aptamer-based biosensor is a compact analytical device consisting of an aptamer, as the bio-sensing receptor element, incorporated on a physical transducer surface. Aptamers are a novel class of reagents for the rapid monitoring and detection of biomolecules, which are characterized by a small size, chemical stability, and low cost, compared to conventional “receptors” such as antibodies or enzymes. Moreover, they offer extraordinary elasticity and expediency in the design of their assemblies, which has led to novel biosensors that show high sensitivity and selectivity. Recent investigations in nanotechnology, fabrication, and biotechnology have involved material science engineers, molecular biochemists, and biotechnologists for the development of aptasensors. This Special Issue will accept and publish manuscripts that deal with aptasensors, concerning, for example, surface immobilization techniques and mechanisms used to detect biomolecular interactions in the context of biotechnology and nanomedicine



mdpi.com/si/43282

Special Issue



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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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Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

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