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Aptamer Technologies

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Deadline for manuscript submissions:
closed (30 September 2018)

Message from the Guest Editors

The continued advancement of aptamer-based technologies, and the pursuits of industry and academia to deliver new aptamers more easily, and with enhanced properties, has enriched a range of applications, such as therapeutics, bioimaging, and environmental purification and monitoring. One such area that continues to grow is that of aptamer-based sensors.

The term aptamer encompasses DNA, RNA and peptide oligomers, each subset with its own unique set of chemical properties, stabilities, and applications. In this Special Issue, we want to highlight the recent and exciting developments in the field of aptamer research. The emphasis will be on the ways that these technologies have enabled new measurements, chemical processes, and methodologies. Examples of topics will include biosensors, security, food safety, antimicrobial resistance, flow technologies, such as lateral flow and functionalized flow reactors, point of care diagnostics, and more fundamental research into the rapid identification and modification of peptides with additional properties, such as DNAzymes or enhanced affinity, to name a few.

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