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Aptamers

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Message from the Guest Editors

Dear Colleagues,

Aptamers are oligonucleotides capable of specific, high affinity binding to a wide variety of target molecules. These attributes have led to their application in diagnostics, therapeutics, targeted delivery, fluorescence imaging, as well as biosensing. The methods by which aptamers are selected have been iteratively improved for almost three decades, yielding a robust system capable of producing aptamers rapidly and at low cost with many advantages relative to antibodies. In recent years, there has been an explosion of innovation in aptamer science including enhanced selection techniques, riboswitches, unnatural base pairs, nucleic acid nanostructures, DNazymes and aptazymes. This Special Issue of *IJMS* will cover a selection of research topics and current review articles highlighting work at the frontiers of aptamer research and applications.

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Special Issue



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Message from the Editor-in-Chief

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