

Special Issue

Aptamers

Message from the Guest Editors

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.

Guest Editors

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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