

Special Issue

Nucleic Acid Based Sensing for Biomedical Applications

Message from the Guest Editor

Nucleic acids have great potential for use in sensing technologies. This Special Issue is focused on the application of nucleic acids for the development of biosensors aimed at diagnostics and medicinal purposes. Different types of nucleic acid entities like aptamers, nucleic acid reporters and switches, and DNA/RNAzymes can serve as receptor layers of biosensors. Complementary interactions, molecular beacons, nucleic acid amplification reactions, and catalytic activity of nucleic acids provide the means for signal amplification and detection. We invite the authors to submit research articles as well as specialized reviews dedicated to the development of novel nucleic acid-based receptors against the targets of physiological or medicinal significance, the design and characterization of original sensing schemes, and sensing platforms and biosensors employing nucleic acids with the potential for application in diagnostics and medicinal research.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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