

Special Issue

Oligonucleotide Aptamers for Diagnostics and Therapy

Message from the Guest Editors

In recent decades, oligonucleotide aptamers have emerged as versatile and powerful tools in biomedical research and clinical applications. These short, single-stranded nucleic acids can fold into unique three-dimensional structures able to bind a plethora of different targets with high affinity and specificity. Compared to antibodies, aptamers offer several advantages, such as enhanced chemical stability, low immunogenicity, rapid and cost-effective synthesis, and ease of chemical modification. Aptamers are being increasingly explored for both diagnostic and therapeutic purposes, such as targeted drug delivery, and the development of new treatment strategies for complex diseases. This Special Issue aims to provide a comprehensive and multidisciplinary overview of the most recent advances in the field of aptamers, highlighting both opportunities and challenges in their application to diagnostics and therapy. We invite researchers to submit original papers, communications, and reviews regarding oligonucleotide aptamers for diagnostics and therapy to be considered for publication in this Special Issue of *Pharmaceutics*. We look forward to hearing from you.

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