

Special Issue

Advances in Nucleic Acid Therapeutics

Message from the Guest Editor

Nucleic-acid-based therapeutics have been recognized as a significant category of drug, in addition to traditional small molecules and antibody drugs. There has been tremendous progress in recent decades to utilize nucleic-acid-related molecules to treat a wide spectrum of diseases, among which several nucleic acid drugs have been approved for clinical use. Particularly in the past two years, we have witnessed the unprecedented global COVID-19 pandemic and the successful development of the first mRNA vaccine, which demonstrates the prominent potential of nucleic acid therapies. Moreover, the development of innovative chemical approaches and biological technologies make the exploration of nucleic acid drugs progress so rapidly that we think it is necessary to summarize some important developments in this field in the form of this Special Issue. This Special Issue will be devoted to the applications of different nucleic acid therapeutics, as well as their insights into the mechanisms. The topics will include nucleoside molecules, siRNA, protein-binding RNA, CRISPR gene editing, ribosomes, aptamers, ribozymes, and nanostructures.

Guest Editor

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