







an Open Access Journal by MDPI

Advances in Nucleic Acid Therapeutics

Guest Editor:

Dr. Wen Zhang

Department of Biochemistry and Molecular Biology, Indiana University Melvin and Bren Simon Comprehensive Cancer Center, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202, USA

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editor

Dear Colleagues,

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 nucleicacid-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.

Dr. Wen Zhang Guest Editor













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us