

Special Issue

Transcriptional Therapy and Nucleic Acid-Based Therapeutics: From Molecular Targets to Preclinical Studies: 2nd Edition

Message from the Guest Editor

The exponential growth of genomic information has become crucial to develop new treatments based on molecular tools able to transcriptionally or post-transcriptionally modify the expression of coding and non-coding RNA. To date, antisense oligonucleotides, aptamers and RNA interference, and CRISPR/Cas9 systems are the most common tools used for transcriptional therapy, and some of these tools have been approved by regulatory authorities for the therapy of diseases such as age-related macular degeneration, Duchenne muscular dystrophy, and spinal muscular atrophy. These approaches are exciting and advantageous for both monogenic and polygenic diseases. In the latter case, autoimmune and inflammatory diseases, neurological diseases, cancer, metabolic syndrome, and obesity represent the areas in which transcriptional therapy and nucleic acid-based therapeutics are continuing to expand. This Special Issue will gather papers reporting on investigations focused on concepts, interpretations, and experiments concerning nucleic acid-based therapeutics, ranging from the identification of molecular targets to their application in preclinical studies.

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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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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