



Therapeutic Nucleic Acids: Past, Present, and Future

Guest Editor:

Dr. Marina A. Dobrovolskaia

Nanotechnology
Characterization Lab, Frederick
National Laboratory for Cancer
Research, Frederick, MD 21702,
USA

Deadline for manuscript
submissions:

closed (15 April 2019)

Message from the Guest Editor

Dear Colleagues,

The goal of this Special Issue is to review achievements and lessons learned from basic research and translational studies related to moving therapeutic nucleic acids from bench to bedside. The issue will include review and research articles, focusing on both traditional nucleic acids (e.g., antisense oligonucleotides, siRNA) and a new generation molecules (e.g., sgRNA, DNA origami, DNA/RNA nanoparticles). Challenges with the delivery of therapeutic nucleic acids and solutions for overcoming the challenges will be addressed by experts in the field. Nanotechnology-based delivery platforms, safety, efficacy, biomarkers, and appropriate in vivo/in vitro models will be considered. We welcome you to share your research findings, literature reviews and technical recommendations in the subject area by submitting your work to this Special Issue.

Dr. Marina A. Dobrovolskaia

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)