

Special Issue

Nucleic Acid Mimetics: Synthesis, Probe Design and Bioanalytical Applications

Message from the Guest Editor

Nucleic Acid Analogs (Mimetics) have been chemically synthesized and extensively studied for several decades across a variety of fields, including oligonucleotide-based therapeutics and nucleic acid-based sensing platforms. In many cases, such chemically modified nucleic acids provide enhanced chemical and biological stability, increased affinity toward the target bioanalyte, and improved sequence selectivity compared to their natural nucleic acid counterparts. This Special Issue, “Nucleic Acid Mimetics: Synthesis, Probe Design and Bioanalytical Applications”, welcomes original research and review articles in the field, focusing on chemically modified nucleic acids as means to develop tailored sensing molecules with improved properties, such as sensitivity and specificity to the analyte, whether RNA/DNA biomarkers or small molecule bioanalytes.

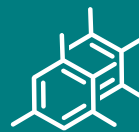
Guest Editor

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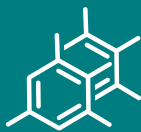


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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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