

Special Issue

Advances in Diagnostics: Applications of Nucleic Acids and Their Analogs

Message from the Guest Editors

This Special Issue explores the dynamic landscape of nucleic acids and their analogs in diagnostic breakthroughs, elucidating their pivotal role in pushing the boundaries of molecular diagnostics. Amidst the evolving field of genetic and epigenetic analyses, this collection delves into the multifaceted applications of nucleic acids, uncovering their potential to revolutionize disease diagnosis. Contributions within this issue span diverse areas, including the utilization of biomarkers for early cancer detection, the integration of CRISPR-based technologies in precision medicine and the exploration of novel nucleic acid analogs for enhanced diagnostic sensitivity. Additionally, the issue explores the intersection of artificial intelligence and nucleic acid diagnostics, showcasing innovative strategies to decipher complex genomic data. The combination of these sub-topics collectively unlocks diagnostic frontiers, offering a comprehensive perspective on the power of nucleic acid in shaping the future of diagnostic medicine.

Guest Editors

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Dr. Maria Moccia

Deadline for manuscript submissions

closed (20 June 2025)



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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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