



## Current Insights into Nucleic Acids

Guest Editor:

**Prof. Dr. David Stephen  
Pisetsky**

1. Department of Medicine and  
Immunology, Division of  
Rheumatology and Immunology,  
Duke University Medical Center,  
Durham, NC 27710, USA  
2. Medical Research Service,  
Veterans Administration Medical  
Center, Durham, NC 27705, USA

Deadline for manuscript  
submissions:

**20 January 2025**

### Message from the Guest Editor

Nucleic acids are a diverse group of macromolecules that are essential for all life. While the basic principles of heredity and differentiated cell function have long been established, recent studies have revealed exciting insights into the various roles of DNA and RNA, both intracellular and extracellular, in biology, genomic structure, regulatory RNA, and the immune activities of nucleic acids. This Special Issue of *IJMS* will focus on the structural and functional roles of DNA and RNA, including advances in delineating higher-order interactions in gene function. The role of different enzymes in DNA metabolism will also be considered. Genetic studies are of interest if they illustrate important aspects of genomic structure or regulation. Papers for this Special Issue can encompass studies of both eukaryotic and prokaryotic systems as well as viruses and other infecting organisms. This Special Issue will also consider papers on methodologies including novel approaches for gene sequencing and structural analysis.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## 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.

## 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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI