

## Special Issue

# Ribonucleotides in Genomic DNA: Molecular Mechanisms and Biological Implications

### Message from the Guest Editor

Initiating a scientific exploration, this Special Issue of the *International Journal of Molecular Sciences* is devoted to investigating the multifaceted landscape of “Ribonucleotides in Genomic DNA”, elucidating their molecular intricacies and far-reaching biological consequences. Our objective is to spotlight enzymatic processes dictating ribonucleotide incorporation, emphasizing pivotal players such as DNA polymerases and ribonucleotide reductase. This Special Issue aims to illuminate ribonucleotide excision repair mechanisms safeguarding genomic integrity and address the delicate balance contributing to genome stability. Special attention is provided to the functional dynamics of ribonucleotides in DNA, revealing their role in influencing DNA structure and inducing mutations. This call to action is extended to solicit both research articles and insightful reviews that collectively contribute to a comprehensive elucidation of the sources, functions, and consequences of ribonucleotides in genomic DNA.

### Guest Editor

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### Deadline for manuscript submissions

20 October 2025



## International Journal of Molecular Sciences

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## About the Journal

### 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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