

## Special Issue

# Molecular Structure and Dynamics of DNA/RNA Helices

### Message from the Guest Editor

Nucleic acids are the most important macromolecules for the continuity of life, among which DNA and RNA chains are well known. Knowledge concerning the molecular structure of these DNA/RNA helices, simplified microhelices, or WC pairs of nucleosides or nucleobases is of great importance. Therefore, unpublished theoretical or experimental manuscripts that report on any aspect of the physical, chemical, and biochemical aspects of nucleic acids bases, nucleosides, nucleotides, DNA and RNA helices, and the interactions involved with them are welcome for this Special Issue. In addition, computational studies that deal with structure prediction, DFT calculations, molecular dynamics, or spectroscopy are accepted. Topics in this Special Issue may also include the following:

- Effects of the different nucleosides in a strand on the helical parameters of the helix;
- Influence of the different chemotherapeutic drugs on the DNA/RNA helix structure;
- Effect of the mutations on the DNA/RNA replication and its mechanism.

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### Guest Editor

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### Deadline for manuscript submissions

15 July 2026



## DNA

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## About the Journal

### Message from the Editor-in-Chief

Since the first human and mouse genome sequence assemblies over 20 years ago, hundreds of species are now complete, impacting on diagnostics, medicine, agriculture and the environment. Taking a “sequence to consequence” and “structure to nature” philosophy with clearly written, accessible manuscripts, *DNA* will publish novel research findings, reviews and communications in DNA-related technologies, genome structures, DNA-targeted therapies, bioinformatics and cytogenomics. As pioneers in DNA technology, we owe it to the next generation to take the lead in carving a new path that the enigmatic double helix at the core of our essence shows us. We look forward to hearing from you and distributing your insights to the community.

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### Editor-in-Chief

Prof. Dr. Yves Pommier

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