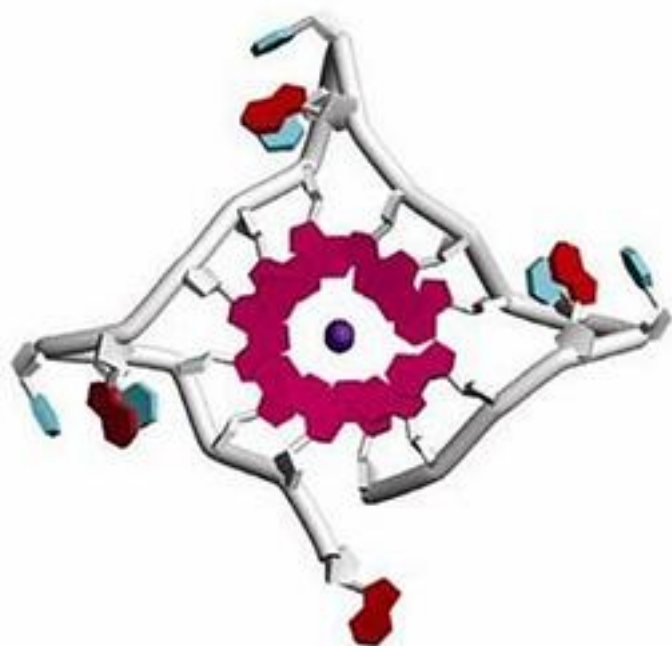


Quadruplex Nucleic Acids (RSC Biomolecular Sciences)

RSC Biomolecular Sciences

Edited by Stephen Neidle and Shankar Balasubramanian

Quadruplex Nucleic Acids



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Guanine rich DNA has been known for decades to form unusual structures, although their biological relevance was little understood. Recent advances have demonstrated that quadruplex structures can play a role in gene expression and provide opportunities for a new class of anticancer therapeutics. A number of quadruplex-specific proteins have also been discovered. Quadruplex Nucleic Acids discusses all aspects of the fundamentals of quadruplex structures, including their structure in solution and the crystalline state, the kinetics of quadruplex folding, and the role of cations in structure and stability. The biology of quadruplexes and G-rich genomic regions and G-quartets in supramolecular chemistry and nanoscience are also considered. Surveying the current state of knowledge, and with contributions from leading experts, this is the first comprehensive review of this rapidly growing area. Quadruplex Nucleic Acids is ideal for researchers interested in areas related to chemistry, chemical biology, medicinal chemistry, molecular pharmacology, and structural and molecular biology.

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