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ESSENTIAL LABORATORY TECHNIQUES AND BIOCHEMICAL ANALYSIS

Edited by
Darshan Malik, Nandita Narayanasamy and V A Pratyusha





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Chapter

Nucleic Acids

By Vandana Malhotra 

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ABSTRACT

Nucleic acids are one of the most essential biomolecules that play a crucial role in the storage, transmission, and expression of genetic information in all living organisms. They are polymers composed of nucleotide monomers, and the two primary types of nucleic acids are deoxyribonucleic acid (DNA) and ribonucleic acid (RNA). The chapter provides a comprehensive overview of nucleic acids, their structures, types and functions. The experiments outlined in this chapter aim to facilitate learning about the characteristic properties of nucleic acids and describe methods for their isolation and purification from cells and tissues.