



NMR in Molecular Biology

Oleg Jardetzky, G. C. K. Roberts

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NMR in Molecular Biology provides an introduction to the basic concepts and principles of nuclear magnetic resonance (NMR) that are essential to a critical evaluation of experimental data. It also aims to acquaint readers in some detail with those prototype experiments in which a definite, biologically relevant answer has been obtained.

The book opens with a chapter on the historical development of NMR technology. Separate chapters follow on the fundamental principles of NMR; paramagnetic perturbations of NMR spectra; time scales, chemical exchange, and problems of exchange; and characteristics of NMR spectra through investigations of compounds such as amino acids and peptides; and nucleic acid bases, nucleosides, and nucleotides. Subsequent chapters deal with protein NMR spectra, protein-ligand interactions, and the structure and dynamics of membranes.

This book is intended for the student or practicing scientist wishing to gain a critical understanding of the applications of NMR to a wide range of problems in molecular biology.

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