



Molecular Basis of Specificity in Nucleic Acid-Drug Interactions

By Pullman, Bernard / Jortner, Joshua

Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the Twenty-Third Jerusalem Symposium on Quantum Chemistry and Biochemistry Held in Jerusalem, Israel, May 14-17, 1990 | Proceedings of the Twenty-Third Jerusalem Symposium on Quantum Chemistry and Biochemistry, held in Jerusalem, Israel, May 14-17, 1990 | One of the central problems in the study of the mechanism of DNA-ligand interactions is the existence and nature of sequence specificity with respect to the base pairs of DNA. The presence of such a specificity could be of particular significance because it might possibly mean the involvement of specific genes in the effectiveness of the different drugs. The elucidation of the factors responsible for the specificity could then be important for the development of compounds susceptible to contribute to the control of gene expression and also to the development of rationally conceived, improved new generations of effective and specific chemotherapeutic agents. Important recent achievements, experimental and theoretical, in the analysis of such sequence specificities open prospects for possible rapid progress in this field. The 23rd Jerusalem symposium was devoted to the exploration of these recent achievements in relation to many types of ligand, with special emphasis on antitumor drugs. All major types of interaction,...



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