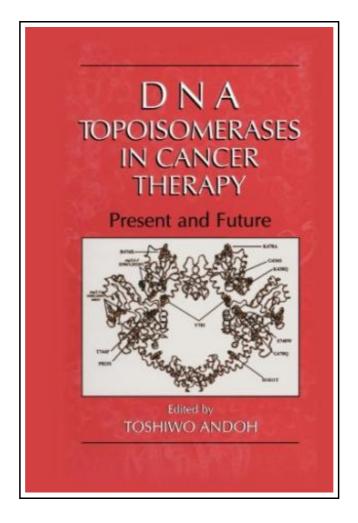
DNA Topoisomerases in Cancer Therapy



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Reviews

This pdf may be really worth a read, and superior to other. It generally does not price too much. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Dylan Schaden)

DNA TOPOISOMERASES IN CANCER THERAPY



Book Condition: New. Publisher/Verlag: Springer, Berlin | Present and Future | In the mid 80's type I and II enzymes were found to be the intracellular targets of a number of efficacious anticancer drugs such as doxorubicin, mitoxantrone, etoposide and camptothecin as a result of a continued efforts of many investigators, especially Leroy Liu and his collaborators at Johns Hopkins University. Readers will find a series of chapters written by researchers actively engaged in the expanding field of topoisomerase and their inhibitors. The series of chapters cover review articles on pharmacology and the molecular mechanism of topoisomerase I- and II-targeting anticancer drugs in mammals and in the yeast Saccharomyces cerevisiae, which has proved to be a superb model organism for studies of anticancer drugs. This volume compiles up-to-date information on the topoisomerase-targeting compounds in clinical and preclinical development as a useful and important reference book for students and researchers in the field of pharmacology, toxicology, oncology and molecular biology. | Contributors. Preface. 1: Reflections on an accidental discovery; J.C. Wang. 1. A hectic year in the late 1960s. 2. An accidental finding. 3. A new enzyme. 4. An enzyme in search of a name. 5. A discovery missed? Postscripts. References. 2: Pharmacology of topoisomerase inhibitors; Y. Sasaki. 1. Introduction. References. 3: Mechanisms of topoisomerase I inhibition by anticancer drugs; Y. Pommier, J. Barceló, T. Furuta, H. Takemura, O. Sordet. 1. Introduction. 2. Molecular model for top1 inhibition: misalignment of the 5'-hydroxyl end of the cleaved DNA. 3. Cellular lesions induced by top1 cleavage complex. 4. Repair of top1 covalent complexes. 5. Molecular pathways implicated in the cellular responses to top1 cleavage complexes; determinants of response and resistance with potential clinical relevance. 6. Apoptotic response to top1 poisoning: balance between cell death and survival. References. 4: Mechanism of action of topoisomerase...



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