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DNA topoisomerases have been identified as the cellular targets of many potent antitumor drugs. Research on DNA topoisomerases has progressed into development in therapeutics, as our understanding of the biochemistry, molecular biology, and regulation of DNA topoisomerases has been rapidly applied to clinical pharmacology.

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DNA Topoisomerases: Biochemistry and Molecular Biology Edited by Leroy F. Liu Volume 29, Part A, Pages 1-320 (1994)

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### **DNA Topoisomearases: Biochemistry and Molecular Biology ...**

■ Abstract DNA topoisomerases solve the topological problems associated with DNA replication, transcription, recombination, and chromatin remodeling by introducing temporary single- or double-strand breaks in the DNA.

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Topoisomerases (or DNA topoisomerases) are enzymes that participate in the overwinding or underwinding of DNA. The winding problem of DNA arises due to the intertwined nature of its double-helical structure. During DNA replication and transcription, DNA becomes overwound ahead of a replication fork. If left unabated, this torsion would eventually stop the ability of DNA or RNA polymerases involved in these processes to continue down the DNA strand.

### **Topoisomerase - Wikipedia**

These ubiquitous enzymes perform a number of critical cellular functions by generating transient breaks in the double helix. During this catalytic event, topoisomerases maintain genomic stability by forming covalent phosphotyrosyl bonds between active site residues and the newly generated DNA termini. Topoisomerases are essential for cell survival.

### **DNA topology and topoisomerases - Dewese - 2009 ...**

Evolution of DNA Topoisomerases and DNA Polymerases: a Perspective from Archaea. Systematic and Applied Microbiology 1993, 16 (4) , 746-758. DOI: 10.1016/S0723-2020(11)80349-8. Claude Paoletti. The localization of topoisomerase II cleavage sites on DNA in the presence of antitumor drugs.

### **Inhibitors of DNA topoisomerases | Biochemistry**

DNA topology should be an integral component of biochemistry and molecular biology curricula for a number of reasons, including: Topology affects virtually every nucleic acid process that requires the double helix to be opened or moved within the cell [3, 5-8]

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### **DNA topoisomerases : biochemistry and molecular biology ...**

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be opened or moved within the cell [ 3, 5 - 8 ].

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**DNA topoisomerases : biochemistry and molecular biology ...**

DNA topoisomerases are nature's tools for resolving the unique problems of DNA entanglement that occur owing to unwinding and rewinding of the DNA helix during replication, transcription, recombination, repair, and chromatin remodeling.

**New Mechanistic and Functional Insights into DNA ...**

Topoisomerases are ubiquitous enzymes involved in maintaining genomic stability of the cell by regulating the over- or underwinding of DNA strands. Besides their customary functions, topoisomerases are important cellular targets of widely used anticancer drugs. In particular, topoisomerase II $\alpha$  (Top2 $\alpha$ ) has been postulated as

**Topoisomerases and Anthracyclines: Recent Advances and ...**

Finally, treatment of cultured human cells with 2-chloroacetaldehyde, a reactive metabolite of vinyl chloride that generates etheno adducts, increased cellular levels of DNA cleavage by topoisomerase II $\alpha$ . This finding suggests that type II topoisomerases interact with exocyclic DNA lesions in physiological systems.

**Exocyclic DNA Lesions Stimulate DNA Cleavage Mediated by ...**

Due to their importance to cell biology, DNA topology-altering enzymes, collectively DNA topoisomerases and gyrases, have been studied thoroughly from a biochemical perspective, yet the expansion of research at the molecular and cellular levels continues to show a great deal of promise.

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