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Binding of 2-Azaanthraquinone Derivatives to DNA and Their Interference with the Activity of DNA Topoisomerases in Vitro. *Biochemistry* 1998, 37 (14) , 4703-4711. DOI: 10.1021/bi9724220. Ulrich Bierbach and, Nicholas ... *Critical Reviews in Biochemistry and Molecular Biology* 1991, 26 (3-4) , 335-375. DOI: 10.3109/10409239109114072.

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Chang-Hui Shen, in Diagnostic Molecular Biology, 2019. Type II

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Topoisomerases. Type II topoisomerases transiently cleave both strands of a DNA duplex to allow the unidirectional passage of another DNA duplex through the protein-linked DNA gate (Fig. 1.21, bottom). Cleavage of the phosphodiester backbone in one segment of duplex DNA (termed the gate or G-segment) by the two active site tyrosines ...

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DNA gyrase is an essential bacterial enzyme that catalyzes the ATP-dependent negative super-coiling of double-stranded closed-circular DNA. Gyrase belongs to a class of enzymes known as topoisomerases that are involved in the control of topological transitions of DNA.

DNA Gyrase: Structure and Function: Critical Reviews in

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Marie-Claude Serre, Michel Duguet, in Progress in Nucleic Acid Research and Molecular Biology, 2003. E Gyrase (Type IIa, Eubacteria and Some Archaea) Gyrase is a specialized type II topoisomerase able to introduce negative supercoils in a circular DNA through an ATP-dependent reaction.. 1 Phylogenic Position and Sequence Organization. Gyrase was initially discovered in E. coli (58), and it was ...

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1. Annu Rev Biochem. 2001;70:369-413. DNA topoisomerases: structure, function, and mechanism. Champoux JJ(1). Author information: (1)Department of Microbiology, School of Medicine, University of Washington, Seattle, Washington 98195-7242, USA. champoux@u.washington.edu DNA topoisomerases solve the topological problems associated with DNA replication, transcription, recombination, and chromatin ...

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DNA topoisomerases constitute a large family of enzymes that are essential for all domains of life. Although they share general reaction chemistry and the capacity to govern DNA topology and resolve strand entanglements during fundamental molecular processes, they are characterized by differences in their structural organization, modes of enzymatic catalysis, and

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Type I DNA Topoisomerases - Journal of Medicinal Chemistry ...

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In molecular biology Type I topoisomerases are enzymes that cut one of the two strands of double-stranded DNA, relax the strand, and reanneal the strand. They are further subdivided into two structurally and mechanistically distinct topoisomerases: type IA and type IB.

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Type I topoisomerase - Wikipedia

Type II topoisomerases cut both strands of the DNA helix simultaneously in order to manage DNA tangles and supercoils. They use the hydrolysis of ATP, unlike Type I topoisomerase. In this process, these enzymes change the linking number of circular DNA by ± 2 .

Type II topoisomerase - Wikipedia

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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