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occurs after the synthesis has been completed

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6. The elongation of the leading strand during DNA synthesis a) Progresses away from the replication fork b) Occur in 3' -5' direction c) Produces Okazaki fragment d) Depend on the action of DNA polymerase 7. Eukaryotes differ from prokaryote in mechanism of DNA replication due to: a) Different enzyme for synthesis of lagging and leading strand

~~Multiple Choice Questions on DNA Replication - MCQ Biology ...~~

C. Guanine always binds with Adenine and Cytosine always binds with Thymine. D. Guanine always binds with Thymine and Adenine always binds with Cytosine. E. Guanine always binds with Guanine and Adenine always binds with Adenine. 9. In the Meselson-Stahl experiment, which model of DNA replication was eliminated by the analysis of DNA isolated from bacteria one replication cycle after shifting from  $^{15}\text{N}$  to  $^{14}\text{N}$  medium?

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DNA Replication Exam PART I - MULTIPLE CHOICE: Select the

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best answer for each question or statement (3 points each, 30 points total) 1. What is the function of helicase? A. It forms bonds between DNA nucleotides. B. It adds new nucleotides to the DNA helix. C. It forms the DNA helix. D. It separates DNA strands 2.

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DNA replication is the process wherein the DNA makes a copy of itself. This usually occurs during cell division. The double helix structure will be unzipped first then the hydrogen bonds will be broken down. The separated structure will then create the replication fork form. The two new strands will serve as the new, replicated DNA.

~~What is DNA replication? — ProProfs Discuss~~

DNA replication does occur in the 5' to 3' direction; this is also the reason that the lagging strand must be synthesized away from the replication fork. DNA is denatured (separated) at the replication fork by an enzyme known as helicase, which breaks the hydrogen bonds between base pairs to allow DNA polymerase and other replication proteins ...

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transcription and post transcriptional modifications, translation and post translational modifications.

In 1957 two young scientists, Matthew Meselson and Frank Stahl, produced a landmark experiment confirming that DNA replicates as predicted by the double helix structure Watson and Crick had recently proposed. It also gained immediate renown as a “ most beautiful ” experiment whose beauty was tied to its simplicity. Yet the investigative path that led to the experiment was anything but simple, Frederic L. Holmes shows in this masterful account of Meselson and Stahl ’ s quest. This book vividly reconstructs the complex route that led to the Meselson-Stahl experiment and provides an inside view of day-to-day scientific research--its unpredictability, excitement, intellectual challenge, and serendipitous windfalls, as well as its frustrations, unexpected diversions away from original plans, and chronic uncertainty. Holmes uses research logs, experimental films, correspondence, and interviews with the participants to record the history of Meselson and Stahl ’ s research, from their first thinking about the problem through the publication of their dramatic results. Holmes also reviews the scientific community ’ s reception of the experiment, the experiment ’ s influence on later investigations, and the reasons for its reputation as an exceptionally beautiful experiment.

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their thrilling sprint against other world-class researchers to solve one of science ' s greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspoiled by false modesty, Watson relates his and Crick ' s desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life. Never has a scientist been so truthful in capturing in words the flavor of his work.

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