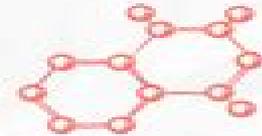


# DNA Replication



## Fill in the blanks:

- \_\_\_\_\_ are enzymes involved in a variety of activities, including replication, proofreading, and mismatch repair.
- \_\_\_\_\_ modify double-stranded DNA supercoiling by transiently cleaving one or both strands of DNA.
- \_\_\_\_\_ enzymes synthesizes short RNA sequences.
- Short nucleic acid sequences, known as \_\_\_\_\_ are necessary for replication initiation.
- Following DNA unwinding, \_\_\_\_\_ stabilize individual parental DNA strands, preventing the strands from rejoining.
- \_\_\_\_\_ synthesizes the leading strand from the 5' to 3' direction following RNA primer addition.
- \_\_\_\_\_ "glues" Okazaki fragments together by catalyzing the formation of a phosphodiester bonds at single-stranded DNA breaks.
- After cleaving primers from both the leading and lagging strand, \_\_\_\_\_ replaces the primers with DNA nucleotides.
- While not a major player in chromosomal replication, \_\_\_\_\_ has both proofreading and primase capabilities.
- The \_\_\_\_\_ is a single-stranded DNA molecule that is replicated from the 5' to 3'.
- The \_\_\_\_\_ is a single-stranded DNA molecule synthesized in the 3' to 5' direction during DNA replication.
- \_\_\_\_\_ are short DNA sequences synthesized discontinuously on the lagging strand during replication. They are later joined together via the enzyme \_\_\_\_\_.
- \_\_\_\_\_ enzymes bind to and separate double-stranded DNA into single-strands during replication.
- \_\_\_\_\_ is the process in which polymerase enzymes detect and replace incorrectly paired nucleotides.
- \_\_\_\_\_ is a strand-specific process in which enzymes identify incorrect nucleotides inserted into newly synthesized DNA daughter strands. To do so, the parental DNA strand is used as template.
- \_\_\_\_\_ are a class of enzymes that remove mispaired individual nucleotides via hydrolysis of phosphodiester bonds.
- \_\_\_\_\_ is a molecular technique used to perform DNA amplification, or replication of specific sequences.

## Word bank:

Helicase Okazaki fragments DNA polymerases  
 Topoisomerase DNA ligase (2x) DNA polymerase I  
 DNA polymerase II DNA polymerase III Primase  
 Single-stranded DNA binding proteins  
 Mismatch repair Polymerase chain reaction Lagging  
 strand Primers Exonucleases Exonucleases  
 Leading strand Proofreading



# Answer Key To Replication

**JL Elias**



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