

Study guide - Unit 3 Quiz 2

What is DNA replication?

1. Answer: DNA replication is the process by which a cell makes an identical copy of its DNA.

Where does DNA replication occur in a eukaryotic cell?

2. Answer: DNA replication occurs in the nucleus of a eukaryotic cell.

What is the first step of DNA replication called?

3. Answer: The first step of DNA replication is called initiation.

What enzyme is responsible for unwinding the DNA double helix during replication?

4. Answer: The enzyme helicase unwinds the DNA double helix during replication.

What is the role of DNA polymerase in DNA replication?

5. Answer: DNA polymerase adds new nucleotides to the growing DNA strand during replication.

What are the leading and lagging strands in DNA replication?

6. Answer: The leading strand is synthesized continuously in the 5' to 3' direction, while the lagging strand is synthesized discontinuously in the opposite direction.

What are Okazaki fragments?

7. Answer: Okazaki fragments are short DNA fragments that are synthesized on the lagging strand during DNA replication.

Study Guide Unit 3 Genetics Answers

JL Elias



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