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Chapter 25 - DNA Replication

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EDIT RESPONSE

Chapter 25 - DNA Replication

November 7

Your email address (grossoehmen2@mailbox.winthrop.edu) was recorded when you submitted this form.

What is meant by semiconservative replication?

each product of replication has one old copy and one new copy of DNA

DNA replication is _____ on the lagging strand

- continuous
- discontinuous

What role does primase play in DNA replication?

synthesizes the RNA primer on the lagging strand

What is "exonuclease activity"?

an active site that catalyzes the hydrolysis of the 5' or 3' end nucleotide of a DNA strand

What metal ion is required for DNA Polymerase activity?**E. coli contains three DNA Polymerases. Which of these contain 5'→3' exonuclease activity?**

check all that apply

- Pol I
 Pol II
 Pol III

Which enzyme is the primary replicase in E. coli?

- Pol I
 Pol II
 Pol III

Helicases require energy to unwind DNA

- True
 False

What role does DNA Ligase have in replication?**Your book discusses four important strategies that organisms use to ensure replication accuracy. Briefly summarize these four strategies.****What are telomeres?**

Exposure to UV radiation forms dimers between adjacent _____ bases.

A

G

C

T

Other:

What is the difference between point mutations and insertion/deletion mutations?

point mutations are one mistake on a DNA molecule resulting in a mismatch - I/D mutations are where one or more nucleotide has been added or removed.

What is the major difference between BER and NER?

BER removes a single nucleotide that is a mismatch - NER removes a patch of ~30 residues

What role does DNA Photolyase play in cells?

repairs pyrimidine dimers that were formed through UV exposure.

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