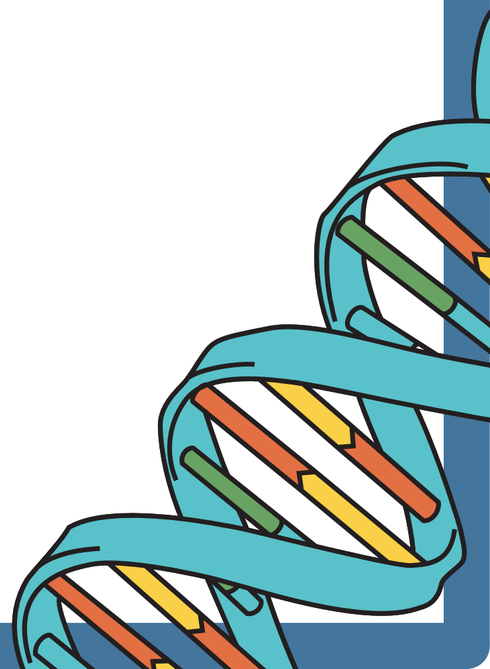
Quiz

DNA polymerase

A)is a template directed enzyme can only elongate the DNA chain in the 5' -to- 3' direction
B) is a template directed enzyme can only elongate the DNA chain in the 3' -to- 5' direction
C)is a template directed enzyme can only elongate the DNA chain in the 3' -to- 3' direction

The Leading Strand

A)synthesized continuously in 3'-5' direction
B)synthesized continuously in 5'-3' direction
C)synthesized discontinuously in 5'-3' direction



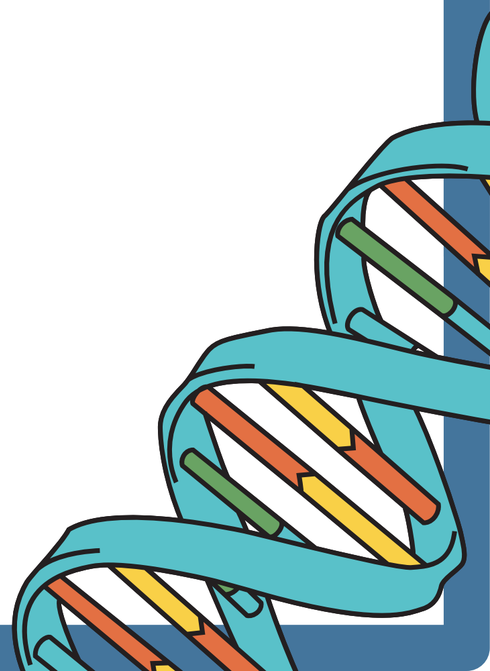
Quiz

DNA ligase

A)DNA synthesis
B)removes RNA primers
C)joins the okazaki fragments

All of the following are characteristics of replication except:

A)Semiconservative process
B)Initiation at specific origins
C)Fork movement usually in one direction
D)Strands elongated 5' to 3'



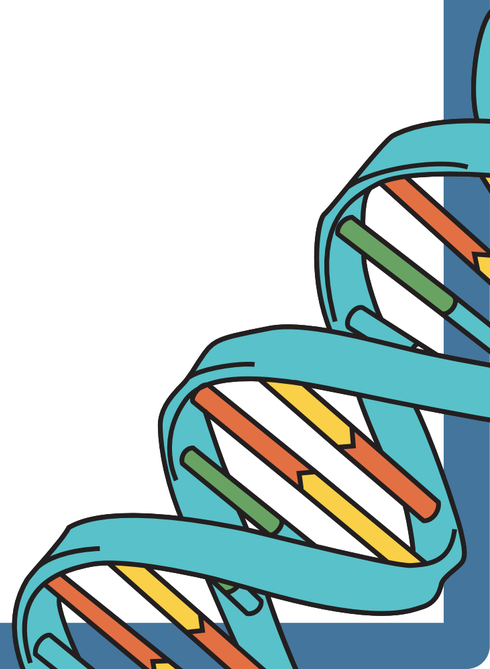
Quiz

How is the leading strand produced?

A)continuously
B)Discontinuously
C)NONE

What is the function of the enzyme DNA polymerase?

A)gluing together Okazaki fragments
B)joining together nucleotides during replication
C)unzipping" the two strands of DNA



Quiz

Okazaki fragments occur with replicating:

A)both strands
B)the lagging strand
C)the leading strand

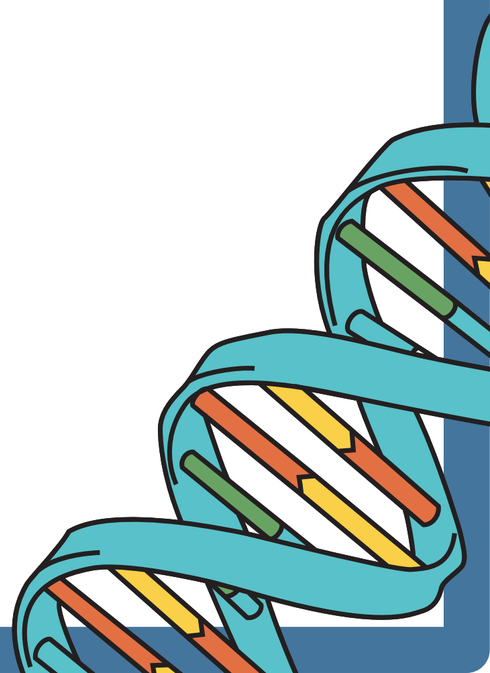
During replication, Okazaki fragments elongate

(a) leading strand towards the replication fork

(b) lagging strand towards the replication fork

(c) leading strand away from the replication fork

(d) lagging strand away from the replication fork



Quiz

DNA replication is

(a) conservative

(b) conservative and discontinuous

(c) semi-conservative and discontinuous

(d) semi-conservative and semi-discontinuous

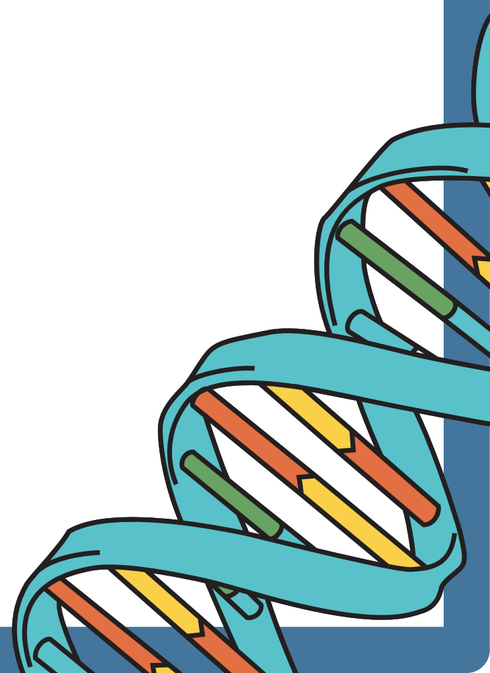
DNA polymerase synthesizes

(a) DNA in 5′-3′ direction

(b) DNA in 3′-5′ direction

(c) mRNA in 3′-5′ direction

(d) mRNA in 5′-3′ direction



Quiz

The fragments of DNA are joined together by which of the following enzymes?

(a) Endonuclease

(b) DNA polymerase

(c) Primase

(d) Ligase

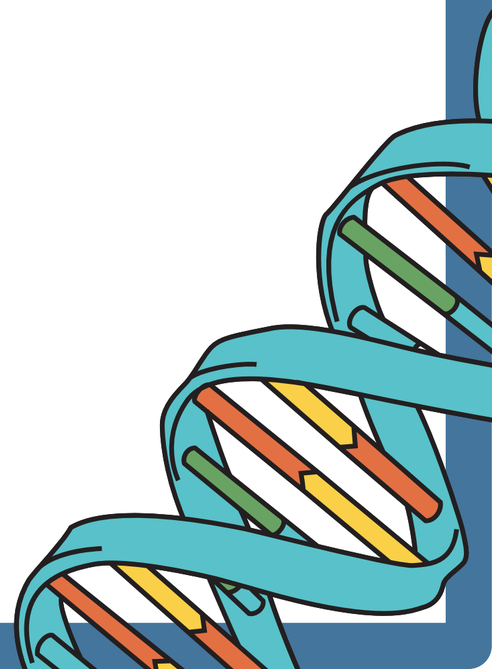
DNA replication includes?

(A) DNA polymerase and ligase

(B) RNA polymerase and ligase

(C) ligase

(D) all of these



Quiz

In DNA replication, primer is a?

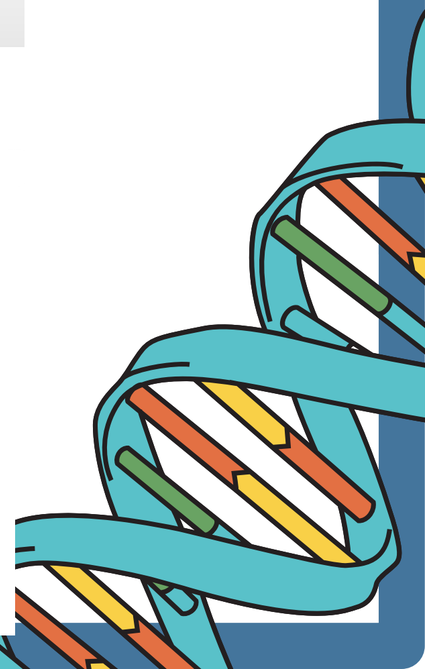
(A) helix destabilizing protein (B) a small deoxyribonucleotide polymer

(C) small ribonucleotide polymer (D) an enzyme that joins the new DNA strands

okazaki fragments are formed during.

(A) transcription (B) translation

(C) replication (D) transformation



Quiz

1) A
2) B
3) B
4) C
5) A
6) B
7) B
8) D
9) D
10) A
11) D
12) D
13) C
14) C