



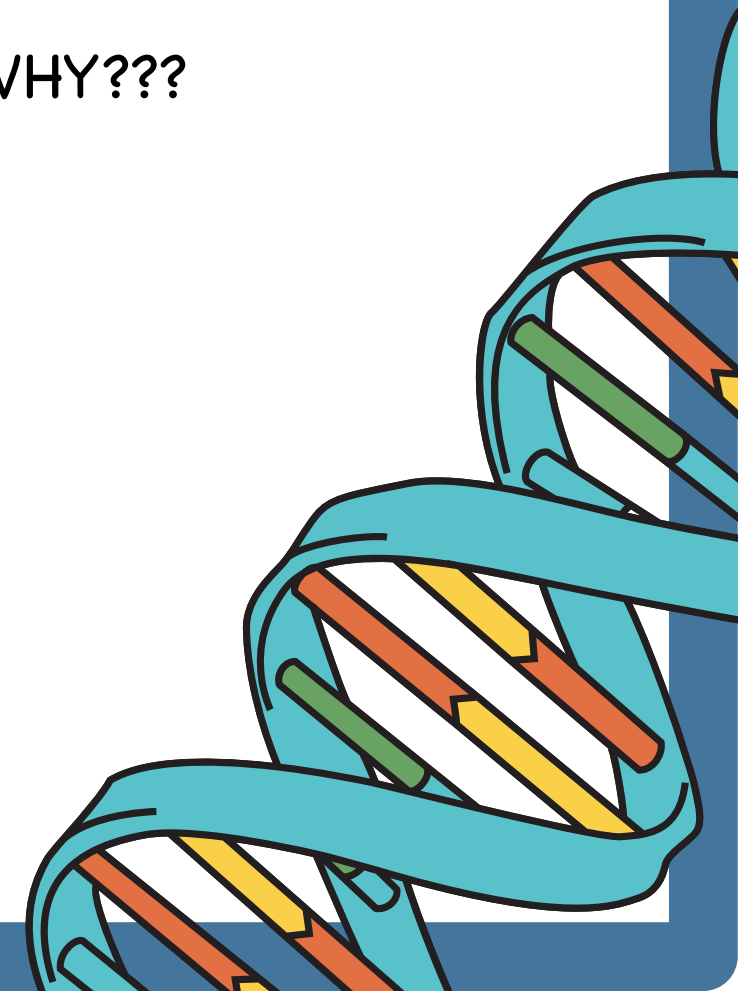
Quiz

repetitive DNA at the end of a eukaryotic chromosome is a _____.

- A) bacteriophage
- B) DNA polymerase
- C) nitrogenous base
- D) telomere

Once the primer has been removed from the end of template strands, it cannot be replaced with DNA. WHY???

- A) There is no 5' end onto which DNA polymerase can add DNA nucleotides
- B) There is no 3' end onto which DNA polymerase can add DNA nucleotides
- C) NONE





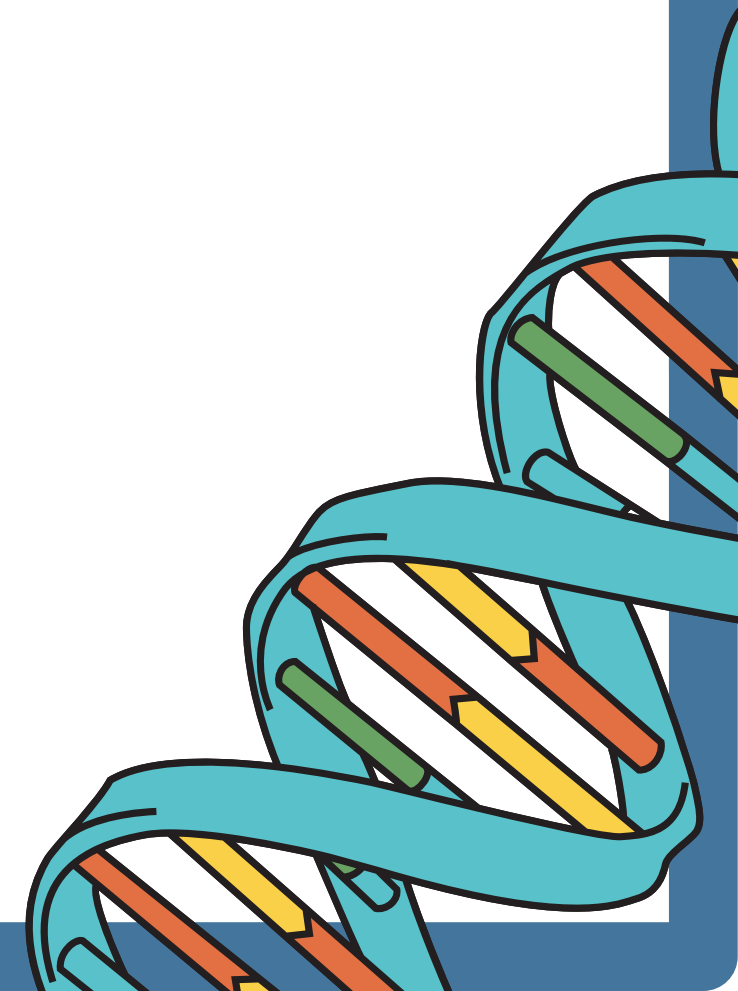
Quiz

Telemores do not contain

- A) genes
- B) non coding DNA
- C) Protein

what cells (that give rise to gametes) avoid this fate by use of an enzyme called telomerase

- A) SOMATIC CELL
- B) GERM CELL
- C) NONE





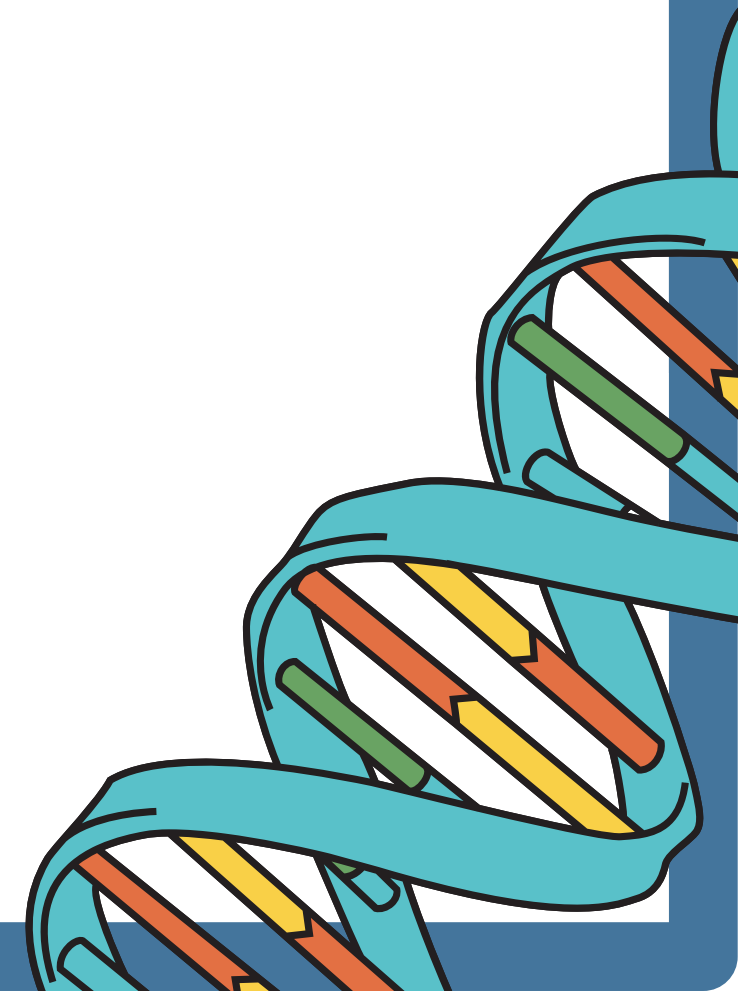
Quiz

Telomerase contains a short __ __ that serves as a template for new telomere segments

- A) germ cells
- B) DNA molecules
- C) RNA molecules

What are the functions of telomeres?

- A) protect ends
- B) maintain length
- C) maintain chromosome stability
- D) All of the following are correct





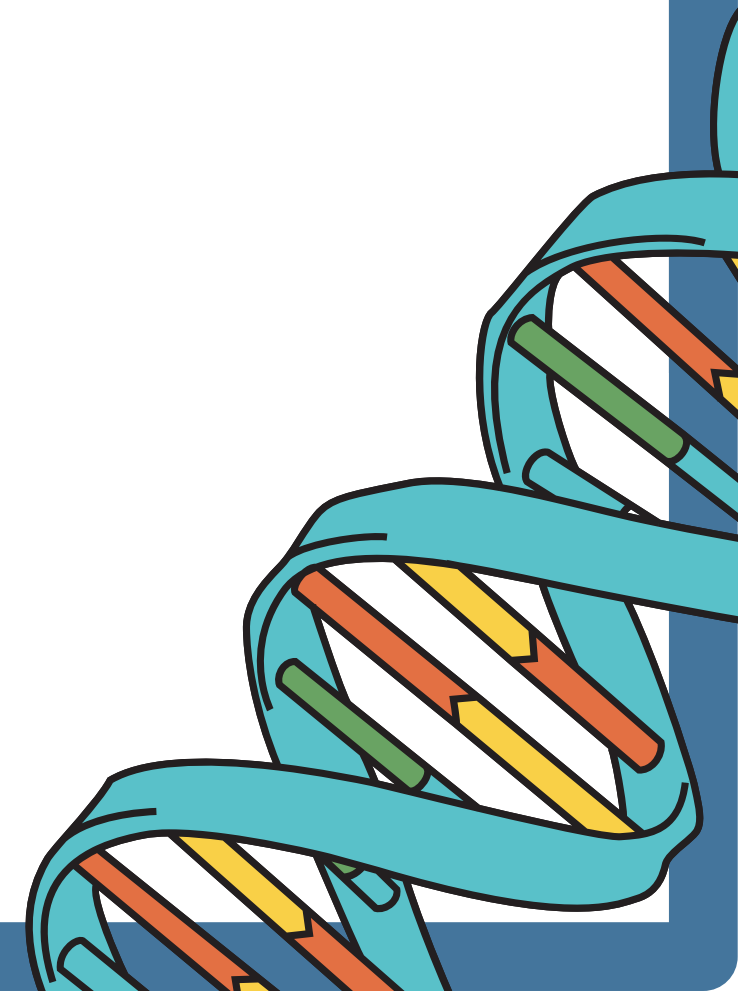
Quiz

Telomere sequences are tandem repeats of...?

- A) TTAGG
- B) AAUCC
- C) TTCGG

Telomere sequences are not conserved in eukaryotes

- True
- False





Quiz

telomerase made up of :RNA component - contains a sequence that is complementary to the telomere sequence that is added. This template region can be used to add to the ends of the chromosomes.

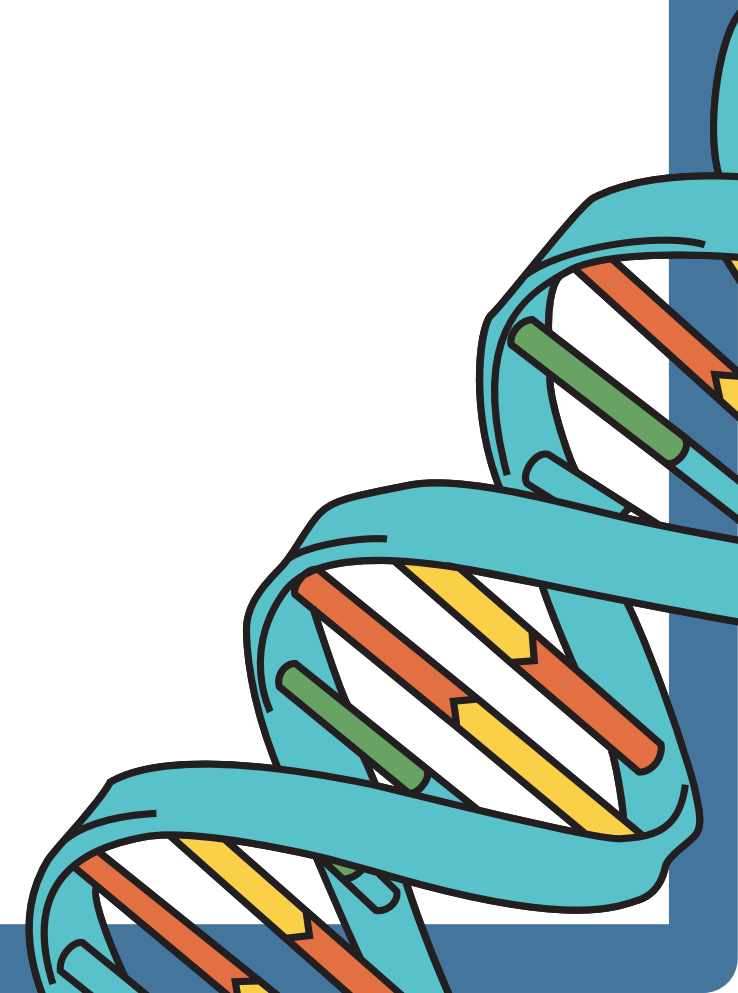
TRUE

FALSE

polymerase α , alpha, has low processivity. meaning it falls off from the template

TRUE

FALSE





Quiz

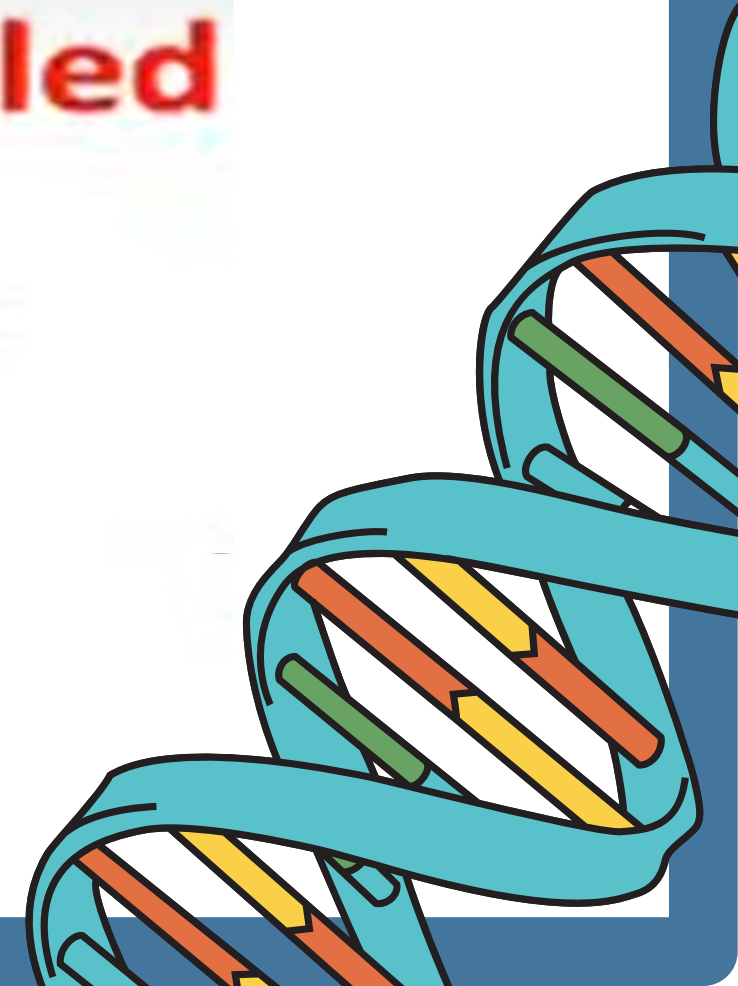
polymerase epsilon

- A) synthesizes DNA on the lagging strand
- B) synthesizes DNA on the leading strand
- C) NONE

Terminal end of a chromosome is called

- (a) Chromomere**
- (c) Telomere**

- (b) Centromere**
- (d) Metamere**





- 1) D
- 2) B
- 3) A
- 4) B
- 5) C
- 6) D
- 7) A
- 8) False
- 9) True
- 10) True
- 11) B
- 12) C

