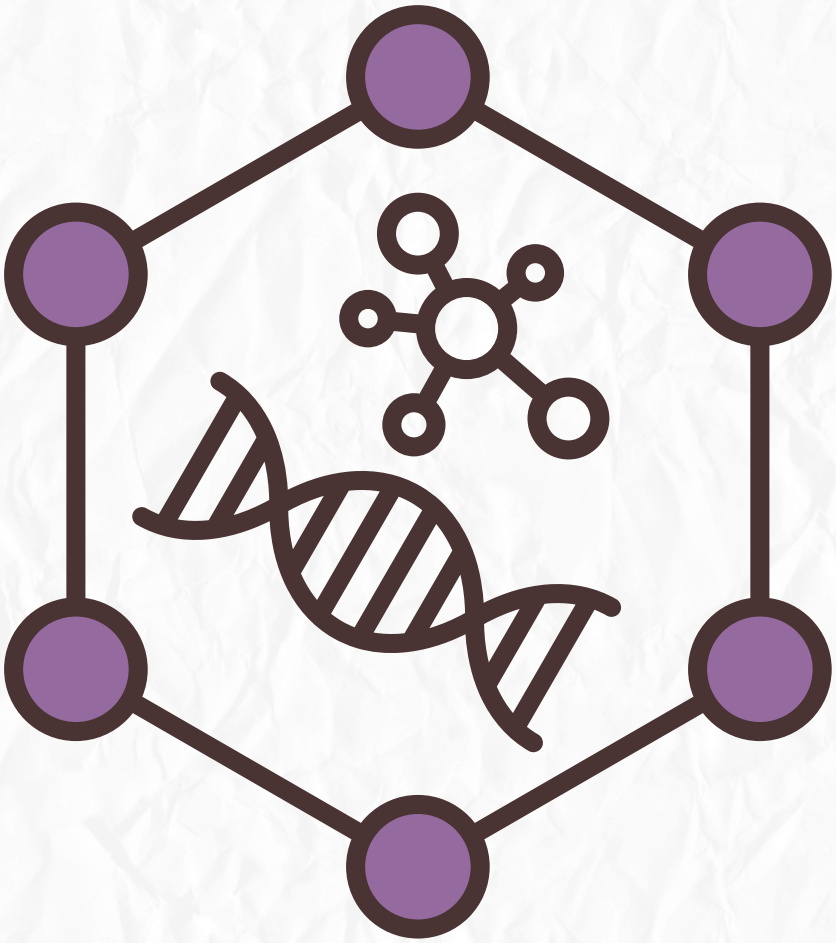
لجنة طب الأسنان

Molecular genetics

Archive



Which of the following statements about DNA is correct?
B) DNA strands are parallel to each other.
C) The bond is always between purines and pyrimidines.
D) Uracil is present in DNA instead of thymine.

Answer:C

Which of the following statements about the phosphate group in nucleic acids is incorrect?
A) The phosphate group is part of the backbone of DNA and RNA.
B) The phosphate group is involved in forming phosphodiester bonds.
C) The third hydroxyl group binds to the sugar to form a phosphodiester bond.
D) Phosphodiester bonds link the 5′ carbon of one sugar to the 3′ carbon of the next sugar.

Ans:c

The end of chromosomes is
A. Telomere
B. Telomerase

Ans:A

What is the typical sequence of telomeres in humans?
ATCGAT
GCGCGC
TTAGGG
AACCAA

Ans:C

the point the links a pair of sister cromatids :
a)telomeres
b)centromere
c) kinetochre
d)chromatin
e)origin of replication

answer :b

which histones are associated with the linker DNA of a nucleosome:
a)H3
b)H4
c)H5
d)H1
e)H2A and H2B

answer :d

DNA ligase function in DNA replication :
a)forms phosphodiester bonds between OH3’ of okazaki fragment and phosphate 5 ’ of the next lagging strand
b) adds RNA primers to the template strands
c) creates the replication fork
d) matches complementary nucleotides to the templates DNA ligase function in DNA replication :
a)forms phosphodiester bonds between OH3’ of okazaki fragment and phosphate 5 ’ of the next lagging strand
b) adds RNA primers to the template strands
c) creates the replication fork
d) matches complementary nucleotides to the templates

answer :a

which enzyme is responsible for removing of supercoils ahead of the replication fork in DNA replication :
a)topoisomerases
b)ligase
c)DNA primase
d) DNA polymerase
e) RNase

answer:a

which of the following has telomeres :
a) human chromosomes
b)plasmid
d)none of the above

answer::a

Okazaki fragments occur during:
a) Polymerase reaction
b) Synthesis
c) Transription
d) Transformation
e) Replication

Answer:E

What is seqence at end of chromosome?
A) centromere
B) Telomere
C) Telomerase
D) kinetochore

Answer:B

Wrong about cental dogma ?
A) RNA from DNA
B) protein from RNA
C)RNA from protein

Answer:C

Incorrect ?
A) RNA polymerase | .. tRNA
B) RNA polymerase || mRNA
C)RNA polymerase ||| tRNA

Answer:A

1.Peptide bond formation
2. Joining of the ribosomal subunits
3. P- site binding
4. A- site binding
5. E- site binding
6. Translocation
The correct order will be:

- 2, 4, 1, 6, 3, 5.
- 2, 3, 1, 6, 4, 5.
- 2, 3, 4, 1, 6, 5.
- 2, 3, 1, 4, 6, 5.
- 2, 4, 3, 6, 1, 5.

Answersc