

## Study Guide for DNA Replication lecture

Know the structure of double stranded DNA: 2 strands are polymers of nucleotides, phosphodiester backbone- repeating sugar and phosphate units joined by phosphodiester bonds. Wraps around 1 axis, antiparallel.

Be able to describe the chemical bonds involved in the holding the deoxyribose units together as well as the bonds connecting the two strands of the double helix. Deoxyribose: covalent bonds. Between the two strands: hydrogen bonds.

Know the numbering system of the deoxyribose component What is meant by the phrase 5' to 3' direction? How DNA is synthesized.

Where on the deoxyribose component are new nucleotides added during DNA synthesis? They're added to the 3' end (OH).

Which bases are complimentary? Know how many hydrogen bonds exist between each pair of bases. G to C, A to T. G/C have 3 hydrogen bonds, A/T have 2 hydrogen bonds, making G/C more stable.

What 3 things are needed for DNA replication? Something to copy (parental DNA molecule), something to do the copying (enzymes), building blocks to make the copy (nucleotide triphosphates).

Name the three steps of DNA replication. Initiation (replication begins), elongation (new strands of DNA are synthesized by DNA polymerase), termination (replication is terminated)

During DNA synthesis, what provides the energy required for the process? The breaking of the high energy bonds of the triphosphate of each nucleotide triphosphate

What is pyrophosphate? How does it contribute to DNA synthesis? The formation of a phosphodiester bond releases pyrophosphate; the hydrolysis of pyrophosphate drives the reaction forward.

Describe the properties common to all DNA polymerases. Add nucleotides to only the free 3' end of a growing DNA strand. Thus a new DNA strand elongates only in the 5' to 3' direction. DNA Polymerase III is the enzyme responsible for the addition of nucleotides to the new DNA strand.

How do the properties of DNA and DNA polymerase affect the synthesis of DNA. Specifically, why does the antiparallel structure of DNA cause a problem for replication? One parental strand is oriented 3' to 5' into the fork, the other antiparallel parental strand is oriented 5' to 3' into the fork.

Describe the synthesis of the leading and lagging strand in detail. Include in this description the role of helicase, DNA gyrase, single strand binding proteins, beta subunit of DNA polymerase, DNA polymerase III, DNA polymerase I and DNA ligase. Helicase- untwists and separates the template DNA strands at the replication fork. Single-strand binding proteins- keep the unpaired template

# Modern Biology Study Guide Dna Replication

**M Lipman**



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