

11: DNA: the Chemical Basis of Genetics

Key Terms

- **Nucleoside:** Compounds with a ribose or deoxyribose and a base. Base includes four types G, C, A and T (or U).
- **Nucleotide:** Compounds with a ribose or deoxyribose, a base and a phosphate group, it is the basic building unit for DNA (monomers of DNA).
- **Polynucleotides:** Include both DNA and RNA, depends on which sugar it contains. Polymers of nucleotides, also known as nucleic acids.
- **Pyrimidines:** A type of base, including both cytosine and thymidine.
- **Purines:** A type of base, including both guanine and adenine.
- **Tm:** Melting temperature of DNA. DNA is a double helix molecule, when heated, the two strands separate from each other (melting) and the absorbance at 260 nm increases. When half of the DNA is in single strand status, the temperature is called the DNA's Tm.
- **Denature:** The hydrogen bonds break between the two strands of the DNA molecule, can be caused by heat or pH.
- **Renature:** The denatured DNA restore the double helix structure and re-form hydrogen bonds.
- **C₀t:** C₀ is the initial concentration of DNA, t is time in seconds for reassociation.
- **C₀t_{1/2}:** The point in the reaction that half DNA is double strand and half is single strand.
- **Semiconservative Replication:** when DNA replication finish, the newly-synthesized strand form a double strand with its template "mother" strand - therefore it is called "semi-conservative replication".
- **Replication Origin:** Replication starts from particular sequence (origins) in E. coli and yeast.
- **Okazaki Fragment:** short DNA fragments produced by the lagging strand during DNA replication.

DNA Composition and Structure

Nucleotides are the building unit of DNA.

- Made up of a base, a deoxyribose sugar and a phosphate group

Deoxythymidine monophosphate (dTMP)



- The two strands are wound around each other and form a double helix structure.
- The DNA helix measures 2.4 nm in diameter; 3.4 nm for each full turn.
- Each turn contains 10 base pairs.
- The two strands run in opposite directions (anti-parallel).

DNA Composition and structure (continued)

- Double strand is formed by base pairing (hydrogen bond): A to T and G to C



RNA or Ribonucleic Acid

Occurs mainly in virus

RNA differs from DNA

- RNA is single strand
- RNA contains U, C, G, A
- RNA is normally short
- RNA contains ribose, not deoxyribose

DNA Replication

Model: semiconservative replication

- After replication, each molecule contains a newly-synthesized strand and a template strand.

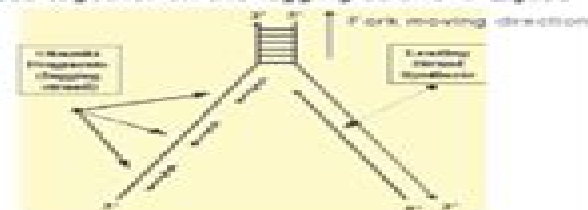


Enzymes:

- To open double strand → Helicase.
- To reduce the tension of the unwinding → Topoisomerase.
- To synthesize RNA primers → Primase
- To elongate the DNA strand → DNA polymerase
- To ligate the pieces together on the lagging strand → Ligase

Continuous and Discontinuous Synthesis

- Leading strand: continuous
- Lagging strand: discontinuous



Telomere and Telomerase

- **Telomere:** special repetitive sequence (TTGGGG) at the end of DNA molecule (end of chromosomes)
- **Telomerase:** Add the telomere sequence to the ends at the

Genetics Core Concept Cheat Sheet. These are the keys related this topic. Try to read through it carefully twice then recite it out on a paper. Review it again before the exams.

Chemical Basis Of Genetics Answers Non

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on concepts visual art program and thoughtful coverage of all areas of genetics The authors capture readers interest with up to date coverage of cutting edge topics and research The authors emphasize those concepts that readers should come to understand and take away with them not a myriad of details and exceptions that need to be memorized and are soon forgotten In addition to topics traditionally covered in genetics this book has increased coverage of genomics including proteomics and bioinformatics biotechnology and contains more real world problems For anyone in biology agriculture or health science who is interested in genetics **Handbook of Aging and the Social Sciences** Kenneth Ferraro, Deborah Carr, 2021-01-09

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