

Chapter 12 Test Study Guide: Molecular Genetics and DNA

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Test date: Monday January 16 2023

Format: MCQ, Labeling, Short Answers, Matching

Chapter 12 Section 1 and 2: DNA Structure and Replication

[Powerpoint Link](#)

Vocabulary : Quizlet

- DNA:** deoxyribonucleic acid, a self-replicating material present in nearly all living organisms. It is the carrier of genetic information.
- Watson and Crick:** discovered the structure of DNA.
- Rosalind Franklin:** Woman who generated x-ray images of DNA. She provided Watson and Crick with key data about DNA
- Erwin Chargaff:** discovered that A=T and G=C
- DNA Structure:** DNA is like a ladder or spiral staircase. The backbone is made of α -sugar-phosphate backbones with alternating sugars and phosphates and the inside "steps" are the nitrogenous bases.
- RNA:** a single stranded nucleic acid
- Nucleotide:** organic molecule made up of a nitrogenous base, pentose sugar and phosphate
- Nitrogen Base :** Adenine, Thymine, Guanine, Cytosine
- Purine:** a nitrogenous base that has a double-ring structure; either adenine or guanine
- Pyrimidine:** a nitrogenous base that has only one ring structure. cytosine, thymine, uracil
- Monomer:** DNA's monomer. nucleotide; small organic molecules that make up polymers.

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Daniela Niemeyer

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