

Chapter 12 Test Study Guide: Molecular Genetics and DNA

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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

☐ Roslind 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 on spiral staircase. The outside is made of a sugar-phosphate backbone 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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