Chapter 12 Test Study Guide: Molecular Genetics and DNA

Abdulaziz AlObaidi

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
- Roslind Franklin:
 Woman who
 generated x-ray
 images of DNA,
 she provided
 Watson and Crick
 with key data
 about DNA

- ☐ Erwin
 Chargaff:discover
 ed that A=T and
 G=C
- DNA structure

 DNA is like a

 ladder or 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 quanine
- 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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