

DNA and RNA Tutorial Answers

Short Questions

1. (a) What is meant by the central dogma of molecular genetics?

- DNA is transcribed to RNA which is translated to protein

(b) Define Chargaff's rules

- $A = G$, $C = T$
- $A + G = C + T$
- Purines = Pyrimidines

(b) List the features of the Watson and Crick model of DNA structure.

- Nucleotide: deoxyribose sugar with base attached at 1' C and Phosphate at 5' C
- Polymer of nucleotides joined by phosphodiester bonds
- Double helix
- H bonding between bases
- A pair with T 2 H bonds, G pairs with C 3 base pairs [1] / complementary base pairing
- Diameter 2nm, helical turn of 3.4nm, distance between bases 0.34nm (or 1.0 base pairs /turn)
- Anti-parallel strands

2. Explain the role of each of the following in DNA replication

(a) DNA polymerase I

- Removes RNA nucleotides in primer and replaces them with DNA nucleotides

(b) DNA ligase

- Joins Okazaki fragments together by forming phosphodiester bonds

(c) Helicase

- Unwinds and unzips DNA

(e) Primase

- Synthesises RNA primer to provide a 3' end for DNA

(e) DNA polymerase III

- Main enzyme of replication, constructs new strand by complementary base pairing to each strand $A = T$ and $G = C$

(f) Gyrase

- Prevents supercoiling of DNA, upstream of replication fork

Lab 32 Dna And Rna Answers

Léo Pomar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Nuclear Science Abstracts ,1967-11 *Manual of Environmental Microbiology* Cindy H. Nakatsu,Robert V. Miller,Suresh D. Pillai,2020-08-11 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies

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because amount of the the researcher use this instrument to know how far students understanding about skimming skill by giving answer in the questionnaire based on the guidance for skimming mc whorter 1992 81

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showed levels of research instrument validity arikunto 2010 211 degradation of accuracy between data which was happen on research object and capacity which can be reported by researcher sugiyono 2014 267 high and low validity of instrument showed how far data were collected didn t diverge from validity itself

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