

Chapter 4 Study Guide: Nucleic Acids

What are the three basic parts of a nucleic acid?

What is a phosphodiester linkage? By what type of reaction is it formed? Does this reaction result in an increase or decrease in entropy? Why?

What is the basic difference between RNA and DNA from a sugar backbone standpoint? How does this affect their reactivities? From an evolutionary standpoint, why is this important?

Does a strand of nucleic acid have directionality? Why?

From a nitrogenous base standpoint, what is/are the difference(s) between the basic structures of RNA and DNA?

What is the "backbone" of a strand of DNA or RNA composed of?

What does it mean to say that a nucleic acid has become activated? Why is this important?

How was X-ray crystallography used to determine the structure of DNA? (Hint: See Bioskills 8 in the back portion of the textbook)

Who determined the secondary structure of DNA?

What three pieces of information did the researchers who determined the secondary structure of DNA have at their disposal?

What are Chargaff's rules? What two concepts in the secondary structure of DNA can you relate them to?

What determines the secondary structure of DNA? (Hint: what molecular interactions bind the two strands together?)

What does it mean to say that "DNA is an information containing molecule"

How is a copy of a DNA molecule made? (Hint: what happens to the individual strands?)

Regarding RNA structure, what is a hairpin? What two simpler structures make up a hairpin? Why do these form?

What does the phrase "complementary base pairing" refer to when discussing secondary structure of DNA? Why are the two DNA strands antiparallel?

- Adenine pairs with _____.
- Cytosine pairs with _____.
- In an RNA molecule uracil pairs with _____ because _____ is absent in RNA.

Nucleic Acids Study Guide Answers

Arshad Iqbal



Nucleic Acids Study Guide Answers:

Whispering the Strategies of Language: An Mental Quest through **Nucleic Acids Study Guide Answers**

In a digitally-driven earth where monitors reign great and instant transmission drowns out the subtleties of language, the profound techniques and mental subtleties hidden within words frequently get unheard. However, situated within the pages of **Nucleic Acids Study Guide Answers** a charming fictional prize pulsating with fresh thoughts, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, this marvelous opus attracts viewers on an introspective journey, softly unraveling the veiled truths and profound affect resonating within the fabric of each and every word. Within the mental depths with this touching review, we shall embark upon a heartfelt exploration of the book is primary styles, dissect their captivating publishing type, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

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