

Short Film: The Double Helix (HHMI) <https://www.hhmi.org/biointeractive/double-helix>

~16 min

1. In the 1950s when Watson and Crick were working on their model of DNA, many scientists did not think that DNA carried the genetic code.

What was the other type of molecule that some scientists thought might carry genetic information?

protein

Why did this other type of molecule seem like a likely candidate?

Proteins seemed like a likely candidate because there are many different types of proteins, and they have many shapes and functions within the cell, just like there are many different types of inheritable traits. DNA, on the other hand, seemed less likely because it was just repeated sugar molecules, linked to a phosphate, with one other base. Since it was so simple and didn't vary that much, it didn't seem as useful for storing information.

____ 2. What are the chemical components of a DNA nucleotide?

- a. a phosphate, a sugar, and a nitrogenous base
- b. a phosphate, a nitrogenous base, and an amino acid
- c. a nitrogenous base, a sugar, and an amino acid
- d. a nitrogenous base, ATP, and a sugar

____ 3. The two strands of a DNA molecule are held together by hydrogen bonds between the

- a. phosphate groups on each strand
- b. nitrogenous bases on each strand
- c. bases and the phosphate-sugar backbone
- d. carbon atoms in the sugars

4. In the diagram below, strands I and II represent the two complementary strands of a portion of a DNA double helix. The sequence of strand I is indicated below. What is the sequence of strand II?

Strand I	C - T- A - C
Strand II	G - A - T - G

____ 5. The instructions for the traits of an organism are determined by

- a. the proportions of A, T, C, and G in DNA molecules
- b. the order of nucleotides in DNA molecules
- c. the length of DNA molecules
- d. the way nucleotides are paired in the two strands of a DNA molecule

6. Scientists build models based on what they know from previous research to derive testable hypotheses. Independently, both Watson and Crick and their competitor Linus Pauling constructed an incorrect triple helix model with the nitrogenous bases arranged so they were on the exterior of the molecule and the phosphate groups on the interior.

a. Although their model was wrong, what assumption made it reasonable to build a model with the

Double Helix Video Guide Answers

Yan Bai



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