Answers to Chapter 16 Study Questions

1. What two different types of organisms did Griffith use to conduct his studies? Griffith used two strains of the bacterium, *Streptococcus pneumonia* (S-pathogenic and R-nonpathogenic) and mice. Use the following table to help outline his experiment.

	Bacteria used	Experiment	Result
Control 1	Living S-strain	Injected into mice	Mice died of pneumonia
Control 2	Living R strain	Injected into mice	Mice remained healthy
Control 3	Heat killed S-strain	Injected into mice	Mice remained healthy
Experiment	Mixture of heat killed S-strain and living R cells	Injected mixture into mice	Mice died of pneumonia Living bacteria in mice blood were "transformed" into the S strain

Why was the S-strain pathogenic? This strain produced a capsule that protected the bacteria from the host's (mouse) immune system. What was Griffith's conclusion? An unknown heritable substance from dead S cells allowed R cells to make capsules and thus transformed the R cells into S cells. Did Griffith know what the unknown heritable substance was? No

2. What was the overall purpose of the experiment conducted by Hershey and Chase with radiolabelled T2 bacteriophage and *E. coli*? The purpose of this experiment was to try to discern if the hereditary material was DNA or protein.
What happens to *E. coli* when it is infected with T2 bacteriophage? T2 reprograms the bacterial cell to make thousands of virus particles.
What does a T2 phage look like? T2 phage is a simple virus consisting of a protein coat that incudes the phage head, tail sheath, and tail fibers. The DNA is found in the head of the virus.
Why was ^{35}S used to label T2 proteins? The amino acid methionine and cysteine contain sulfur. Nucleic acids do not contain sulfur.
Why was ^{32}P used to label DNA? Phosphate is found in the backbone of a DNA strand. Phosphorous in not found in amino acids.
When the labeled T2 phage infected *E. coli* cells, where was radioactivity found after the cultures were agitated and centrifuged to pellet bacterial cells? *Use the table below to answer this question.*

	Location of radioactivity after agitation and centrifugation of bacterial cells	Conclusion:
^{35}S-labeled proteins	Supernatant	The viral proteins did not enter the bacterial cells. Proteins must not be the hereditary material
^{32}P-labeled DNA	Pellet Newly synthesize phage particles also contained DNA that was partially labeled with ^{32}P.	The viral DNA entered the bacterial cells and directed the synthesis of new viral particles. DNA must be the hereditary material in T2 bacteriophage

3. Why did scientists initially believe that proteins were the carrier of genetic information? Compared to nucleic acids, proteins are more complex and heterogeneous molecules.
Cite evidence generated from Erwin Chargaff that revealed that DNA has molecular diversity among species. The content of adenine was 30% in humans but 26% in E. coli.
What is Chargaff's rule? Within a species, the number of adenines = number of thymines, and the number of guanines = number of cytosines.

Chapter 16 Study Guide Answers

Marcel A. Müller

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