

Chapter 16: The Molecular Basis of Inheritance*Concept 16.1 DNA is the genetic material*

1. What are the two chemical components of chromosomes?

DNA and protein

2. Why did researchers originally think that protein was the genetic material?

Until the 1940s, the case for proteins seemed stronger, especially since biochemists had identified them as a class of macromolecules with great heterogeneity and specificity of function, essential requirements for the hereditary material. Moreover, little was known about nucleic acids, whose physical and chemical properties seemed far too uniform to account for the multitude of specific inherited traits exhibited by every organism.

3. Distinguish between the virulent and nonvirulent strains of *Streptococcus pneumoniae* studied by Frederick Griffith.

The virulent strains are pathogenic (disease-causing), whereas the nonvirulent strains are non-pathogenic (harmless).

4. What was the purpose of Griffith's studies?

Griffith was attempting to develop a vaccine against pneumonia.

5. Use this figure to summarize the experiment in which Griffith became aware that hereditary information could be transmitted between two organisms in an unusual manner.

See page 306 of your text for the labeled figure.

Frederick Griffith studied two strains of the bacterium *Streptococcus pneumoniae*. Bacteria of the S (smooth) strain can cause pneumonia in mice; they are pathogenic because they have an outer capsule that protects them from an animal's defense system. Bacteria of the R (rough) strain lack a capsule and are nonpathogenic. To test for the trait of pathogenicity, Griffith injected mice with the two strains. Griffith concluded that the living R bacteria had been transformed into pathogenic S bacteria by an unknown, heritable substance from the dead S cells that allowed the R cells to make capsules.

6. Define *transformation*.

A change in genotype and phenotype due to the assimilation of external DNA by a cell. When the external DNA is from a member of a different species, transformation results in horizontal gene transfer.

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JG Myers



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Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Prentice Hall Biology Study Guide Answer Key Chapter 4**

In some sort of inundated with displays and the cacophony of immediate connection, the profound energy and psychological resonance of verbal artistry often fade into obscurity, eclipsed by the constant assault of sound and distractions. Yet, nestled within the lyrical pages of **Prentice Hall Biology Study Guide Answer Key Chapter 4**, a fascinating perform of literary splendor that pulses with fresh emotions, lies an wonderful journey waiting to be embarked upon. Written by a virtuoso wordsmith, this mesmerizing opus books visitors on an emotional odyssey, delicately exposing the latent possible and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main styles, dissect their charming writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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