

NAME: _____

AP Biology TEST #5 - Chapters 11-14, 16 - REVIEW SHEET

1. Griffith's experiments showing the transformation of R strain pneumococcus bacteria to S strain pneumococcus bacteria in the presence of heat-killed S strain bacteria gave evidence that
 - A) an external factor was affecting the R strain bacteria.
 - B) DNA was definitely the transforming factor.
 - C) S strain bacteria could be reactivated after heat killing.
 - D) All of the above
2. Experiments by Avery, MacLeod, and McCarty supported DNA as the genetic material by showing that
 - A) both protein and DNA samples provided the transforming factor.
 - B) DNA was not complex enough to be the genetic material.
 - C) only samples with DNA provided transforming activity.
 - D) even though DNA was molecularly simple, it provided adequate variation to act as the genetic material.
3. Hershey and Chase used radioactive ^{35}S and ^{32}P in experiments to provide evidence that DNA was the genetic material. These experiments pointed to DNA because
 - A) progeny viruses retained ^{32}P but not ^{35}S .
 - B) presence of ^{32}P in progeny viruses indicated that DNA was passed on.
 - C) absence of ^{35}S in progeny viruses indicated that proteins were not passed on.
 - D) All of the above
4. Chargaff observed that the amount of
 - A) purines is roughly equal to the amount of pyrimidines in all tested organisms.
 - B) A is roughly equal to the amount of T in all tested organisms.
 - C) A + T is roughly equal to the amount of G + C in all tested organisms.
 - D) Both a and b
5. Watson and Crick's model allowed them to visualize
 - A) the molecular bonds of DNA.
 - B) how the purines and pyrimidines fit together in a double helix.
 - C) that the two strands of the DNA double helix were antiparallel.
 - D) All of the above
6. A fundamental requirement for the function of genetic material is that it must be
 - A) conserved among all organisms with very little variation.
 - B) passed intact from one species to the next species.
 - C) accurately replicated.
 - D) found outside the nucleus.

Ap Biology Chapter 16 Review

Mark Anestis, Kellie Cox



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