

BIO FINAL STUDY GUIDE

1. What does DNA stand for? _____
2. In 1928, British scientist _____, was trying to figure out how bacteria made people sick.
3. How did this scientist kill the bacteria? _____
4. What caused the mice to die in his experiments? _____
5. _____ is the process in which one strand of bacteria seemed to transfer into another strain.
6. Avery and other scientists discovered that the _____ stores and transmits the genetic information from one generation of an organism to the next.
7. American scientists, _____ and _____, studied a virus that infects bacteria called a _____. These virus consist of a _____ or _____ core and a _____ coat.
8. These two American scientists concluded that the genetic material of a bacteriophage was _____, and not protein.
9. Three things a gene needs to do is:
 - _____
 - _____
 - _____
10. DNA is made up of units called _____, which are composed of three things:
 - _____
 - _____
 - _____
11. There are four types of _____:
 - Purines:
 - _____
 - _____
 - Pyrimidines:
 - _____
 - _____
12. The DNA back bone is made of the _____ and _____ groups.
13. The four _____ of DNA were like the letters of the alphabet.
14. Chargaff's rule states the relationship between nucleotides. A purine pairs up with a pyrimidine. Adenine will always pair with _____. The purine Guanine always pairs with the pyrimidine _____.
15. In the 19850's, the British scientist _____ used X-ray diffraction to figure out some important clues about DNA structure, such as the fact that it was made of two strands and was in a twisted form.
16. Watson and Crick used clue's from the above scientist to make a model of DNA we call the _____, which consists of two strands twisted around each other.
17. The type of bond that holds nitrogenous bases together is called a _____.
18. This principle of nitrogenous bases pairing up with certain nitrogenous bases is called _____.
19. The process in which DNA copies itself before a cell divides is called _____, in which DNA separates its 2 strands, producing complementary strands following the rules of base-pairing. Each strand of the double helix serves as a template for new strands.
20. The enzyme that "unzips" the DNA strand is called _____.
21. RNA stands for _____.
22. In RNA the nitrogenous bases are the same as in DNA EXCEPT the pyrimidine thymine is replaced with _____, which is only found in RNA.
23. There area 3 types of RNA:
 - o _____; carry instructions to make amino acids
 - o _____; proteins combined with this RNA ribosomes
 - o _____; transfers amino acids to ribosomes to make protein
24. _____ are coded DNA instructions that control the production of proteins within the cell.
25.

DNA

transcription

→

mRNA

translation

→

protein

Biology Final Study Guide

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