

Human DNA Analysis

1. Biologist can now read, _____, and even change the molecular code of genes.
2. _____ are now available for hundreds of disorders, making it possible to determine whether prospective parents risk passing such alleles to their _____.
3. No individual is exactly like any other _____, except, of course, for _____ twins.
4. DNA fingerprinting _____ sections of DNA that have little or no known function but vary widely from one individual to another.
5. Figure 14-18 shows how DNA fingerprinting works.
 - a. DNA is _____ with restriction enzymes
 - b. Fragments are separated by _____ using gel electrophoresis.
 - c. This produces a series of bands, the DNA _____.
6. A pattern of bands is produced that can be _____ statistically from the pattern of any other individual in the _____.
7. The _____ of DNA evidence has helped convict criminals as well as overturn many convictions.

**The Human Genome Project (HGP)**

8. The human genome contains over _____ base pairs.
9. The HGP is an ongoing effort to _____ the human DNA sequence.
10. Dr. Francis Collins and Dr. Craig Venter, who headed the public and private portions of the project, jointly announced the completion of a working draft of the human genome sequence. When did this project begin? _____ When was it completed? _____
11. Only a small part of the DNA molecule is made up of _____.
12. Research groups around the world are analyzing the huge amount of information in the DNA sequence;
 - a. looking for genes that may provide useful clues to some of the basic _____ of life.
 - b. _____ the structure and control of key genes may have commercial value
 - c. Finding _____ information that may be useful in developing new _____ and _____ for diseases.
13. From the very beginning, data from publicly supported research on the human genome have been posted on the _____ on a daily basis.

Gene Therapy

14. In gene therapy, an _____ or _____ gene is replaced by a normal, working gene.
15. _____ are often used because of their ability to enter a cell's DNA.
16. Gene therapy remains a _____, experimental procedure.

Ethical Issues in Human Genetics

17. What is the goal of biology? _____

Guide 14 3 Human Molecular Genetics Answers

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