

Introduction for Chapter 12 – DNA Technology

1. When genes are combined from different sources, it is called _____.
2. When many identical copies of DNA are made, it is called _____.
3. When genes are manipulated for practical purposes, it is called _____.
4. When organisms or parts of organisms are used to make other useful products, it is called _____.
5. How are genes cut into pieces?
6. How do restriction enzymes work?
7. What is meant by "sticky ends"?
8. What enzyme is used to securely paste a fragment of DNA into a recombinant DNA molecule?
9. What does this enzyme do?
10. How does recombinant DNA get into bacteria?
11. What is a genomic library? What are the advantages?
12. What is cDNA and how is it created?
13. How is DNA technology useful?
14. What is a nucleic acid probe and what is it used for?
15. What is a DNA microarray and what is it used for?