Answers to Open-Ended Questions Hoefnagels Essentials 2/e

Chapter 11

Mastering Concepts

11.1

1. What is DNA technology?

DNA technology is the manipulation of genes for a practical purpose.

2. In what fields is DNA technology useful?

DNA technology is useful in studies of evolutionary biology, agriculture, criminal justice, medicine, and many other fields.

11.2

1. What are some uses for transgenic organisms?

Transgenic organisms have many uses; this answer lists a few examples. Transgenic can produce drugs like insulin; transgenic plants may degrade petroleum and other toxic wastes, or they may be resistant to herbicides; transgenic animals may produce human proteins in milk.

2. What are the steps in producing a transgenic organism?

The steps depend on whether the DNA recipient is a bacterium, plant, or animal. In all cases, researchers first identify and isolate the target DNA to be transferred into the recipient. To produce a transgenic bacterium, researchers insert the target DNA into a plasmid and induce bacterial cells to take up the recombinant plasmid. The bacterium then expresses the target DNA. To produce a transgenic plant, one strategy is to insert a plasmid containing target DNA into Agrobacterium, which injects the recombinant DNA into plant cells. New transgenic plants can be grown from the modified cells. To produce a transgenic animal, the target DNA may be packaged into a virus that infects a gamete or zygote, which subsequently develops into an animal with the target DNA in every cell.

3. How do researchers determine a sequence of DNA?

The researchers divide the DNA sample among four test tubes, each containing the unknown sequence, primers, normal nucleotides (A, C, T, and G), replication enzymes, and a small amount of one type of fluorescently labeled terminator nucleotide. Replication results in different-sized fragments of complimentary copies of the unknown DNA. The fragments are sorted by size, using capillary gel electrophoresis. A laser and detector read the order of the fluorescently labeled terminator nucleotides in the gel, and a computer determines the DNA sequence.

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