

Chapter 9 Power Notes Answer Key

Section 9.1

Collected from—bacteria

Used for—cutting DNA

Cut DNA at—specific nucleotide sequences (restriction sites)

Can leave—blunt ends (straight cuts) or sticky ends (staggered cuts with free nucleotides)

1. Restriction sites

Gel electrophoresis—separates DNA fragments based on size; smaller fragments travel farther in a certain amount of time than larger fragments

Restriction maps—fragment sizes between restriction sites; do not show anything about genes or DNA sequence

Section 9.2

PCR—technique that quickly copies a desired segment of DNA

1. temperature increased to separate DNA

2. temperature lowered and primers bind to each strand, bracketing the desired segment of DNA

3. temperature increased; polymerases make new strands of DNA

PCR amplifies—every cycle doubles the number of strands of DNA

Section 9.3

DNA fingerprinting

Based on—noncoding regions of DNA; number of nucleotide repeats in particular parts of the genome; a person's molecular identity; a type of restriction map using gel electrophoresis

Person B—fragments at 2, 3, 4, 5

DNA fingerprints and probability—by investigating several parts of the genome, it is very unlikely that two people would randomly share identical numbers of repeats (multiplying each separate probability to find the total probability of a match)

Uses—criminal cases; immigration; paternity; studying biodiversity; identifying species; tracking GM crops

Section 9.4

Cloning in nature—binary fission, some plants; some simple animals

Mammals—nuclear transfer; low success rate; Dolly the sheep first clone of adult mammal

Potential and controversy—could be used in medical treatments; save endangered species; bring back extinct species; low success rate; decrease biodiversity

Genetic engineering—changing an organism's DNA to give the organism new traits

Recombinant DNA—DNA with genes from more than one organism; genes often inserted into bacterial plasmids

Transgenic bacteria—have plasmid with recombinant DNA; used to make human insulin

Transgenic plants—bacteria with recombinant DNA infect plants; used to make crops

Power Notes Answer Key Biology Chapter 11

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