

Chapter 13 Genetic Engineering – Chapter 14 The Human Genome Review

Biology 122

1. Terms:

- **Selective breeding** – method of breeding that allows only those individual organisms with desired characteristics to produce the next generation.
- **Hybridization** – breeding technique that involves crossing dissimilar individuals to bring together the best traits of both organisms.
- **Inbreeding** – continued breeding of individuals with similar characteristics to maintain the desired characteristics of a line of organisms.
- **Genetic engineering** – process of making changes in the DNA code of living organisms.
- **Restriction enzyme** – enzyme that cuts DNA at a specific sequence of nucleotides.
- **Recombinant DNA** – DNA produced by combining DNA from different sources.
- **Transgenic** – term used to refer to an organism that contains genes from other organisms.
- **Autosome** – chromosome that is not a sex chromosome.
- **Sex chromosome** – one of two chromosomes that determine an individual's sex; females have two X chromosomes; males have one X chromosome and one Y chromosome.
- **Pedigree** – chart that shows the relationships within a family.
- **Sex-linked gene** – gene located on the X or Y chromosome.
- **Gene therapy** – an absent or faulty gene is replaced by a normal, working gene.
- **Nondisjunction** – error in meiosis in which homologous chromosomes fail to separate.

2.

- **Selective breeding** leads to future generations of selectively bred plants and animals, all sharing very similar alleles which will reduce variation.
- **Inbreeding** can lead to a reduced range of alleles in the gene pool, making it more difficult to produce new varieties in the future.

3.

Selective Breeding	
Advantages	Disadvantages
<ul style="list-style-type: none">- develop desirable traits in plants and animals.- plants that we rely on for food are more productive.- Animals we rely on for food are more productive.	<ul style="list-style-type: none">- may prevent the organism from leading a normal life.- plants may be susceptible to diseases.- Reduces gene variety.

Human Genome Chapter Review Answers

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