

Chapter 13

Genetic Engineering

Section 13-1 Changing the Living World (pages 319-321)

This section explains how people use selective breeding and mutations to develop organisms with desirable characteristics.

Selective Breeding (pages 319-320)

1. What is meant by selective breeding? Only animals and plants with desired characteristics are allowed to produce the next generation.
2. Circle the letter of each organism that has been produced by selective breeding.

 a. horses b. dogs c. cats d. potatoes
3. Who was Luther Burbank? He was a selective plant breeder who developed disease-resistant potatoes to help fight potato blight in Ireland, as well as over 800 varieties of other plants.
4. Complete the compare-and-contrast table of types of selective breeding.

SELECTIVE BREEDING

Type	Description	Examples
Hybridization	Crossing dissimilar individuals to bring together the best of both organisms	Disease-resistant Burbank potato
Inbreeding	The continued breeding of individuals with similar characteristics	Maintaining dog breeds

5. Is the following sentence true or false? Hybrids are often hardier than either of the parents. true
6. What two plant traits did Luther Burbank try to combine in his crosses?
 - Disease resistance
 - Food-producing capacity
7. Is the following sentence true or false? To maintain the desired characteristics of a line of organisms, breeders often use hybridization. false
8. Most members of a breed are genetically similar.
9. What are the risks of inbreeding? There is always a chance that a cross between two individuals will bring together two recessive alleles for a genetic defect.

Answer Key Chapter 13 Genetic Engineering

Judd E. Hollander

Answer Key Chapter 13 Genetic Engineering:

Essential Genetics Daniel L. Hartl, Elizabeth W. Jones, 2006 Completely updated to reflect new discoveries and current thinking in the field the Fourth Edition of Essential Genetics is designed for the shorter less comprehensive introductory course in genetics The text is written in a clear lively and concise manner and includes many special features that make the book user friendly Topics were carefully chosen to provide a solid foundation for understanding the basic processes of gene transmission mutation expression and regulation The text also helps students develop skills in problem solving achieve a sense of the social and historical context in which genetics has developed and become aware of the genetic resources and information available through the Internet

Visualizing Nutrition Mary B. Grosvenor, Lori A. Smolin, 2017-12-19

Visualizing Nutrition teaches students to identify and connect the central elements of nutritional science using a visual approach As students explore important nutrition topics they are immersed in content that not only provides scientific understanding but demonstrates relevance to their personal lives Students are challenged and taught the decision making skills needed to navigate the countless choices they will face in promoting their good health and preventing disease

Visualizing Nutrition's critical thinking approach with a solid underpinning of the scientific process empowers students to be knowledgeable consumers when faced with decisions about what to eat

Biology Cecie Starr, John D. Jackson, Roger Taylor, 1991

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Biological Science Biological Sciences Curriculum Study,1996 *Genetic Engineering News* ,2005

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