

## 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?
  - a. Disease resistance
  - b. 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.

# Chapter 13 Genetic Engineering Answer Key 3

**James D. Mauseth**



### **Chapter 13 Genetic Engineering Answer Key 3:**

*Biological Weapons* Kristy Young Johnson, Paul Matthew Nolan, 2016-05-02 Gives readers a detailed understanding of how specific biological weapons work and how those affected by the weapons would be treated Teaches the reader to recognize the symptoms of each biological weapon and understand the threat these weapons pose Concentrates on the weapons considered the greatest threats by the CDC such as Anthrax Botulism Smallpox Ricin toxin Ebola Plague and Viral encephalitis Provides a detailed understanding of how specific biological weapons work and how to recognize the symptoms of those affected by the weapons as well as how they would be treated Includes case studies chapter review questions and the instructor s supplemental materials include PowerPoint presentations a Test Bank and suggestions for student projects Begins with a primer on microbiology the human immune system s response to these biological agents and the defense agencies involved with protecting the public against these agents **Biology** Cecie Starr, John D. Jackson, Roger Taylor, 1991

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