

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.

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Katrin Zwirgmaier



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Table of Contents Prentice Hall Biology Answers Chapter 1

1. Understanding the eBook Prentice Hall Biology Answers Chapter 1
 - The Rise of Digital Reading Prentice Hall Biology Answers Chapter 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Prentice Hall Biology Answers Chapter 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Prentice Hall Biology Answers Chapter 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prentice Hall Biology Answers Chapter 1
 - Personalized Recommendations
 - Prentice Hall Biology Answers Chapter 1 User Reviews and Ratings
 - Prentice Hall Biology Answers Chapter 1 and Bestseller Lists
5. Accessing Prentice Hall Biology Answers Chapter 1 Free and Paid eBooks
 - Prentice Hall Biology Answers Chapter 1 Public Domain eBooks
 - Prentice Hall Biology Answers Chapter 1 eBook Subscription Services
 - Prentice Hall Biology Answers Chapter 1 Budget-Friendly Options
6. Navigating Prentice Hall Biology Answers Chapter 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Prentice Hall Biology Answers Chapter 1 Compatibility with Devices
 - Prentice Hall Biology Answers Chapter 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prentice Hall Biology Answers Chapter 1
 - Highlighting and Note-Taking Prentice Hall Biology Answers Chapter 1
 - Interactive Elements Prentice Hall Biology Answers Chapter 1
8. Staying Engaged with Prentice Hall Biology Answers Chapter 1

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prentice Hall Biology Answers Chapter 1
9. Balancing eBooks and Physical Books Prentice Hall Biology Answers Chapter 1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prentice Hall Biology Answers Chapter 1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Prentice Hall Biology Answers Chapter 1
- Setting Reading Goals Prentice Hall Biology Answers Chapter 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Prentice Hall Biology Answers Chapter 1
- Fact-Checking eBook Content of Prentice Hall Biology Answers Chapter 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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