

Table 1. Frequencies of leucine and phenylalanine at position 1014 of the sodium channel

Region	Date	Total Mosquitoes Tested	Homozygous for Leucine	Heterozygous for Leucine and Phenylalanine	Homozygous for Phenylalanine
A	October 2008	39	3	5	31
A	June 2009	29	-	5	24
A	October 2009	28	-	1	27
A	June 2010	46	-	9	37
B	October 2008	27	20	5	2
B	June 2009	26	18	7	1
B	October 2009	34	20	8	6
B	June 2010	44	12	20	12

- (a) **Describe** the most likely cause of the amino acid substitution in the sodium channel protein. **Explain** how the substitution of a single amino acid in the channel protein could cause pyrethroid resistance in mosquitoes.
- (b) **Identify** the dependent variable in the experiment whose data are graphed in Figure 2. **Identify** the positive control in the experiment. **Justify** exposing some mosquitoes to untreated filter paper each time the experiment was performed.
- (c) Based on the data in Figure 2, **describe** whether mosquitoes from region A or from region B are more likely to exhibit greater evolutionary fitness if exposed to permethrin in their native environment over the time period of the experiment. Based on the data in Figure 2, **describe** any significant change in the susceptibility of mosquitoes from region B to each of the two insecticides over the two-year period. Use the data in Table 1 to **calculate** the frequency of the allele coding for phenylalanine in each population of mosquitoes in October 2008. Round your answers to two decimal places.
- (d) Using mosquitoes from insecticide-free areas, the scientists developed mosquito strains with amino acid substitutions at other positions in the sodium channel protein. They exposed the mosquito strains to nonpyrethroid insecticides. **Predict** the susceptibility of the mosquitoes to the insecticides. The scientists claim that the mosquito population of region B evolved resistance over the period of the experiment and that resistance arose as a result of the immigration of resistant mosquitoes from other regions. Based on the data in Table 1 and the information provided, **provide evidence** to support the scientists' claim.

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Table of Contents Ap Biology Chapter 11 Reading Guide Answers

1. Understanding the eBook Ap Biology Chapter 11 Reading Guide Answers
 - The Rise of Digital Reading Ap Biology Chapter 11 Reading Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Chapter 11 Reading Guide Answers
 - 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 Ap Biology Chapter 11 Reading Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Chapter 11 Reading Guide Answers
 - Personalized Recommendations

- Ap Biology Chapter 11 Reading Guide Answers User Reviews and Ratings
- Ap Biology Chapter 11 Reading Guide Answers and Bestseller Lists
- 5. Accessing Ap Biology Chapter 11 Reading Guide Answers Free and Paid eBooks
 - Ap Biology Chapter 11 Reading Guide Answers Public Domain eBooks
 - Ap Biology Chapter 11 Reading Guide Answers eBook Subscription Services
 - Ap Biology Chapter 11 Reading Guide Answers Budget-Friendly Options
- 6. Navigating Ap Biology Chapter 11 Reading Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Biology Chapter 11 Reading Guide Answers Compatibility with Devices
 - Ap Biology Chapter 11 Reading Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology Chapter 11 Reading Guide Answers
 - Highlighting and Note-Taking Ap Biology Chapter 11 Reading Guide Answers
 - Interactive Elements Ap Biology Chapter 11 Reading Guide Answers
- 8. Staying Engaged with Ap Biology Chapter 11 Reading Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Chapter 11 Reading Guide Answers
- 9. Balancing eBooks and Physical Books Ap Biology Chapter 11 Reading Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Chapter 11 Reading Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Biology Chapter 11 Reading Guide Answers
 - Setting Reading Goals Ap Biology Chapter 11 Reading Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Biology Chapter 11 Reading Guide Answers
 - Fact-Checking eBook Content of Ap Biology Chapter 11 Reading Guide Answers

- 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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