

Regulation of the Lactase Gene



About This Worksheet

This worksheet complements the Click and Learn "Regulation of the Lactase Gene" developed in conjunction with the 2011 HHMI Holiday Lectures on Science "Bones, Stones, and Genes: The Origin of Modern Humans."

Author: Ann Brokaw, Rocky River High School, OH.

Key Concepts

- Eukaryotic gene expression is regulated at the levels of transcription, RNA processing, translation, and post-translation.
- Proteins called transcription factors bind to DNA and control transcription. Different types of transcription factors can increase or decrease transcription.
- Mutations in DNA regions that control gene expression can alter the way genes are expressed.
- Infants have high lactase levels so that they can digest their mothers' milk, but lactase gene expression is turned off after weaning.
- Lactase persistence is the trait that allows adults to continue to digest milk. It results from a mutation in an enhancer region of the lactase gene.

Instructions

1. Go to BioInteractive.org.
2. In the menu bar under the masthead, mouse over Topics → Evolution → Interactive.
3. Scroll down the page and click on "Regulation of the Lactase Gene."
4. Proceed through the slides, watch the embedded video clips, and answer the following questions in the space provided.

Questions

1. What is the difference between lactose tolerance and lactose intolerance? Be specific.

2. Why is lactose tolerance also called lactase persistence?

3. In which cells or tissues is lactase produced and what is its role?

4. What normally happens to the levels of lactase produced throughout a person's lifetime?

5. In general, why is it important for a cell to regulate protein production?

Hhmi Biointeractive Regulation Of The Lactase Gene Answers

DJ Losen



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Table of Contents Hhmi Biointeractive Regulation Of The Lactase Gene Answers

1. Understanding the eBook Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - The Rise of Digital Reading Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Hhmi Biointeractive Regulation Of The Lactase Gene 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 Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Personalized Recommendations
 - Hhmi Biointeractive Regulation Of The Lactase Gene Answers User Reviews and Ratings
 - Hhmi Biointeractive Regulation Of The Lactase Gene Answers and Bestseller Lists
5. Accessing Hhmi Biointeractive Regulation Of The Lactase Gene Answers Free and Paid eBooks
 - Hhmi Biointeractive Regulation Of The Lactase Gene Answers Public Domain eBooks
 - Hhmi Biointeractive Regulation Of The Lactase Gene Answers eBook Subscription Services

- Hhmi Biointeractive Regulation Of The Lactase Gene Answers Budget-Friendly Options
- 6. Navigating Hhmi Biointeractive Regulation Of The Lactase Gene Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Hhmi Biointeractive Regulation Of The Lactase Gene Answers Compatibility with Devices
 - Hhmi Biointeractive Regulation Of The Lactase Gene Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Highlighting and Note-Taking Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Interactive Elements Hhmi Biointeractive Regulation Of The Lactase Gene Answers
- 8. Staying Engaged with Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hhmi Biointeractive Regulation Of The Lactase Gene Answers
- 9. Balancing eBooks and Physical Books Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hhmi Biointeractive Regulation Of The Lactase Gene Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Setting Reading Goals Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hhmi Biointeractive Regulation Of The Lactase Gene Answers
 - Fact-Checking eBook Content of Hhmi Biointeractive Regulation Of The Lactase Gene 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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