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 Broksw, 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 wearing.
- 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.
- 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."
- 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

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Hhmi Biointeractive Regulation Of The Lactase Gene Answers:

Lactase gene expression Edmond Henri Herman Maria Rings,1994 Savaiano,2014-10-01 Lactose Intolerance Dennis

Hhmi Biointeractive Regulation Of The Lactase Gene Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Hhmi Biointeractive Regulation Of The Lactase Gene Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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