

# 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."

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## 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](http://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.

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2. Why is lactose tolerance also called lactase persistence?

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

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

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

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# Hhmi Answers To Lactase Regulation

**G. C. Cook**



## **Hhmi Answers To Lactase Regulation:**

Molecular Biology of the Cell ,1992 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function *Genome Research* ,2009 Evolutionary and Molecular Genetics of Regulatory Alleles Responsible for Lactase Persistence Anke Liebert,2014 *Evolutionary and Molecular Genetics of Regulatory Alleles Responsible for Lactase Persistence* ,2014 **Transcriptional Regulation of Lactase-phlorizin Hydrolase** Kevin T. FitzGerald,1996 **Developmental Regulation and Post-translational Modification of Lactase-phlorizin Hydrolase and Sucrase-isomaltase** Patrick Keller,1994 *Lactose Intolerance* Dennis Savaiano,2014-10-01 Revealing the Mechanisms Behind Adult-type Hypolactasia Through Studies of the Regulation of the Lactase Phlorizin Hydrolase Gene Jesper Thorvald Troelsen,2008 *The Milk Enzyme: Adventures with the Human Lactase Polymorphism* G. C. Cook,2015-10 *The Origins of Lactase Persistence and Ongoing Convergent Evolution* Beth A. Keller,2011 As a primary factor in human evolution natural selection is an important component of genetic research Studies of lactase persistence suggest that positive selection has played a powerful role in the adaptation to a lifelong consumption of fresh milk Using multiple research studies of lactase persistence and suspected corresponding single nucleotide genetic polymorphisms this study combines data sources to determine whether evidence exists for natural selection of a specific cytosine to thymine genetic mutation located 13 910 base pairs T 13910 upstream from the lactase gene This polymorphism has potential to be a causal element for lactase persistence and data suggest that natural selection has played a role in the rising frequency and distribution of this allele if only in some regions European and neighboring regions appear to have the highest frequencies with little or no frequency in Asia Africa and Indonesia however the presence of lactase persistence in those areas suggests convergent evolution may be occurring on a phenotypic level To examine this possibility several other identified polymorphisms in the same region as the T 13910 will be included in this study

**Lactase-phlorizin Hydrolase** Marco Villa,1990 **MILK ENZYME** THE GORDON C. COOK,2016-06-30

## **Hhmi Answers To Lactase Regulation** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Hhmi Answers To Lactase Regulation**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web the study of electricity and magnetism although conceived of as distinct phenomena until the 19th century electricity and magnetism are now known to be components of the unified field of electromagnetism particles with electric charge interact by an electric force while charged particles in motion produce and respond to magnetic forces as well many

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electro magnetic waves which were discovered in 1895 by hertz and exploited by marconi in 1896

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