

# 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.

The main difference between lactose tolerance and lactose intolerance is the ability to digest lactose, a carbohydrate commonly found on dairy products, to its simpler units – glucose and galactose through the enzyme lactase. Basically, a person is considered lactose intolerant if he/she does not have/ have reduced lactase in his/her small intestine.

2. Why is lactose tolerance also called lactase persistence?

Lactase is a normal enzyme found in the human body most especially during its infant to childhood stages. As we age, the ability to produce the enzyme reduces and in some cases it completely stops. This makes a person lactose intolerant. Lactose tolerance is also called lactase persistence because these people did not stop from producing lactase even post childhood stage. They have persistently produced this enzyme which allow the person to easily digest dairy products with ease.

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

Lactase is primarily produced in the cells of the walls of the small intestine. The small intestine functions for the absorption of nutrients from digested food as well as further digestion of food. To be more specific, proteins, fats, and carbohydrates are digested here with the help of many gastric juices. Hence, lactase is one of the carbohydrates that is digested in the small intestine with the help of lactase.

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

LCT gene, the gene responsible for the translation of lactase, is very active during infant to childhood stage. As a person ages, the LCT gene becomes inactive thus greatly affecting the production of lactase. In general, as a person gets older, the more the person becomes lactose intolerant.

# Regulation Of The Lactase Gene Lab Answer Key

**Daniela Niemeyer**



## **Regulation Of The Lactase Gene Lab Answer Key:**

The Genetic Basis of Common Diseases Richard A. King, Jerome I. Rotter, Arno G. Motulsky, 2002-10-17 Since the first edition of this highly acclaimed text was published in 1992 much new knowledge has been gained about the role of genetic factors in common adult diseases and we now have a better understanding of the molecular processes involved in genetic susceptibility and diseases mechanisms The second edition fully incorporates these advances The entire book has been updated and twelve new chapters have been added Most of these chapters deal with diseases such as gallstones osteoporosis osteoarthritis skin cancer other common skin diseases prostate cancer and migraine headaches that are seen by all physicians Others address the genetic and molecular basis of spondylarthropathies lupus hemochromatosis IgA deficiency mental retardation hearing loss and the role of mitochondrial variation in adult diseases Chapters on the evolution of human genetic disease and on animal models add important background on the complexities of these diseases Unique clinical applications of genetics to common diseases are covered in the additional new chapters on genetic counseling pharmacogenetics and the genetic consequences of modern therapeutics **Agrindex** ,1995 Pediatric Gastrointestinal and Liver Disease - E-BOOK Robert Wyllie, Jeffrey S. Hyams, Marsha Kay, 2025-05-31 Accessible practical and focused on diagnosis and treatment Pediatric Gastrointestinal and Liver Disease Seventh Edition covers the entire spectrum of pediatric GI hepatic and nutritional disorders This popular reference offers definitive guidance from experienced editors Drs Robert Wyllie Jeffrey S Hyams and Marsha Kay as well as globally renowned contributors who share their knowledge and expertise on complex issues Full color illustrations review questions online real world case studies and detailed instruction on performing key procedures ensure that this updated edition remains your reference of choice in this fast changing area Includes significantly updated coverage of the gut microbiome new biologic therapies for the treatment of pediatric inflammatory bowel diseases advancements in the treatment of pediatric liver diseases including metabolic associated fatty liver disease MAFLD and new diagnostic imaging techniques Features a robust art program with full color anatomical figures clinical photos and other illustrations throughout the text Details key procedures such as esophagogastroduodenoscopy and related techniques colonoscopy and polypectomy endoscopic retrograde cholangiopancreatography and endoscopic ultrasound capsule endoscopy and small bowel enteroscopy GI motility procedures and more Prepares you for certification and recertification with more than 400 board style review questions answers and rationales online Contains numerous algorithms that provide quick and easy retrieval of diagnostic screening and treatment information as well as detailed diagrams that accurately illustrate complex concepts and provide at a glance recognition of disease processes An ideal everyday resource for pediatric gastroenterologists and hepatologists pediatric dieticians and nutritionists pediatricians family medicine practitioners PAs and NPs Any additional digital ancillary content may publish up to 6 weeks following the publication date **Current Bibliography of Epidemiology** ,1970 Monthly with annual cumulations Comprehensive

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