

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.
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 Answer

Susan Sungsoo Cho, Terry Finocchiaro



Regulation Of The Lactase Gene Answer:

Lactose Intolerance: Pathophysiology, Diagnosis, and Management Dr. Spineanu Eugenia, 2025-02-19 Lactose Intolerance Pathophysiology Diagnosis and Management offers a comprehensive exploration of lactose intolerance from a medical and biochemical perspective This treatise delves into the underlying pathophysiological mechanisms including enzyme deficiencies and genetic variations that contribute to lactose intolerance It provides an in depth analysis of diagnostic approaches including hydrogen breath tests lactose tolerance tests and stool acidity tests The text also examines various management strategies from dietary modifications and lactase supplements to alternative therapies and long term care plans Tailored for healthcare professionals researchers and individuals seeking a thorough understanding of lactose intolerance this resource integrates the latest research and clinical practices With a focus on optimizing diagnosis and treatment Lactose Intolerance Pathophysiology Diagnosis and Management serves as an essential guide to managing this common digestive disorder effectively

Research Grants National Institutes of Health (U.S.). Division of Research Grants. Statistics and Analysis Branch, 1983 **Research Awards Index** , 1983 *Evolution and Medicine* Robert Perlman, 2013-05-30 Evolution and Medicine provides an accessible introduction to the new field of evolutionary medicine Evolutionary concepts help explain why we remain vulnerable to disease how pathogens and cancer cells evolve and how the diseases that affected our evolutionary ancestors have shaped our biology The book interweaves the presentation of evolutionary principles with examples that illustrate how an evolutionary perspective enhances our understanding of disease It discusses the theory of evolution by natural selection the genetic basis of evolutionary change evolutionary life history theory and host pathogen coevolution and uses these concepts to provide new insights into diseases such as cystic fibrosis cancer sexually transmitted diseases and malaria incorporating the latest research in rapidly developing fields such as epigenetics and the study of the human microbiome The book concludes with a discussion of the ways in which recent culturally constructed changes in the human environment are increasing the prevalence of man made diseases such as diabetes and cardiovascular diseases and are exacerbating socioeconomic disparities in health Just as evolutionary biology is concerned with populations and with changes in populations over time evolutionary medicine is concerned with the health of populations Evolution and Medicine emphasizes the role of demographic processes in evolution and disease and stresses the importance of improving population health as a strategy for improving the health of individuals This accessible text is written primarily for physicians biomedical scientists and both premedical and medical students and will appeal to all readers with a background or interest in medicine

Neurobehavioral Disorders of Childhood Robert Melillo, Gerry Leisman, 2004-01-31 Attention deficit disorder attention deficit hyperactive disorder pervasive developmental disorder obsessive compulsive disorder asperger s syndrome and autism to name but a few may be viewed as points on a spectrum of developmental disabilities in which those points share features in common and possibly etiology as well varying only in severity and in the primary anatomical region of

dysfunctional activity This text focuses on alterations of the normal development of the child A working theory is presented based on what we know of the neurological and cognitive development in the context of evolution of the human species and its brain In outlining our theory of developmental disabilities in evolutionary terms the authors offer evidence to support the following notions Bipedalism was the major reason for human neocortical evolution Cognition evolved secondary and parallel to evolution of motricity There exists an overlap of cognitive and motor symptoms Lack of thalamo cortical stimulation not overstimulation is a fundamental problem of developmental disabilities A primary problem is dysfunctions of hemisphericity Most conditions in this spectrum of disorders are the result of a right hemisphericity Environment is a fundamental problem All of these conditions are variations of the same problem These problems are correctable Hemisphere specific treatment is the key to success

An Introduction to Genetic Analysis Anthony J.F. Griffiths, 2015-01-12 With each edition An Introduction to Genetic Analysis IGA evolves discovery by discovery with the world of genetic research taking students from the foundations of Mendelian genetics to the latest findings and applications by focusing on the landmark experiments that define the field With its author team of prominent scientists who are also highly accomplished educators IGA again combines exceptional currency expansive updating of its acclaimed problem sets and a variety of new ways to learn genetics

National Institutes of Health Research Grants National Institutes of Health (U.S.). Division of Research Grants, 1982

Handbook of Prebiotics and Probiotics Ingredients Susan Sungsoo Cho, Terry Finocchiaro, 2009-11-19 While there is little dispute that probiotics and prebiotics alone and together have been proven to promote gastrointestinal health and proper immune function the challenge faced by researchers is finding not only the right combinations but also finding those that are fully compatible with the formulation processing packaging and distribution of functional foods This volume comprehensively explores these variables and highlights the most current biological research and applications It examines the sources of prebiotics and probiotics describes the physiological functions of both products and discusses promising applications for a plethora of disorders

Student Solutions Manual and Supplemental Problems to Accompany Genetics: Analysis of Genes and Genomes Daniel Hartl, Maryellen Ruvolo, 2011-10-13 This must have student resource contains complete solutions to all end of chapter problems in Genetics Analysis of Genes and Genomes Eighth Edition by Daniel L Hartl and Maryellen Ruvolo as well as a wealth of supplemental problems and exercises with full solutions a complete chapter summary and keyword section The supplemental problems provided in this manual are designed as learning opportunities rather than exercises to be completed by rote They are organized into chapters that parallel those of the main text and all problems can be solved through application of the concepts and principles explained in Genetics Eighth Edition

Research grants (National Institutes of Health (U.S.)). 1983 |publ 1984 ,1975* *Physiology of the Gastrointestinal Tract* Kim E. Barrett, Faye K. Ghishan, Juanita L. Merchant, Hamid M. Said, Jackie D. Wood, 2006-05-10 FROM THE PREFACE The original purpose of the First Edition of Physiology of the Gastrointestinal Tract to collect in one set of

volumes the most current and comprehensive knowledge in our field was also the driving force for the Fourth Edition. The explosion of information at the cellular level made possible in part by the continued emergence of powerful molecular and cellular techniques has resulted in a greater degree of revision than that of any other edition. The first section now titled Basic Cell Physiology and Growth of the GI Tract contains numerous new chapters on topics such as transcriptional regulation, signaling networks in development, apoptosis, and mechanisms in malignancies. Most of the chapters in this section were edited by Juanita L. Merchant. Section II has been renamed Neural Gastroenterology and Motility and has been expanded from seven chapters with rather classic titles to more than twenty chapters encompassing not only the movement of the various parts of the digestive tract but also cell physiology, neural regulation, stress, and the regulation of food intake. Almost all of the chapters were recruited and edited by Jackie D. Wood. The third section is entirely new and contains chapters on Immunology and Inflammation which were edited by Kim E. Barrett. The fourth section on the Physiology of Secretion consists of chapters with familiar titles but with completely updated information to reflect the advances in our understanding of the cellular processes involved in secretion. The last section on Digestion and Absorption contains new chapters on the intestinal barrier, protein sorting, and ion channels along with those focusing on the uptake of specific nutrients. These chapters were recruited and edited by Hamid M. Said and Faye Z. K. Ghishan. Collected in one set, the most current and comprehensive coverage of gastrointestinal physiology. Information presented in a style that is both readable and understandable. Valuable to the specialized researcher, the clinical gastroenterologist, the teacher, and the student. Features an entirely new section on Immunology and Inflammation. Each section edited by the preeminent scientist in the field.

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 disease 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.

The Human Genome Julia E. Richards, R. Scott Hawley, 2010-12-12. Significant advances in our knowledge of genetics were made during the twentieth century, but in the most recent decades, genetic research has dramatically increased its impact throughout society. Genetic issues are now playing a large role in health and

public policy and new knowledge in this field will continue to have significant implications for individuals and society Written for the non majors human genetics course Human Genetics Third Edition will increase the genetics knowledge of students who are learning about human genetics for the first time This thorough revision of the best selling Human Genome Second Edition includes entirely new chapters on forensics stem cell biology bioinformatics and societal ethical issues associated with the field New special features boxes make connections between human genetics and human health and disease Carefully crafted pedagogy includes chapter opening case studies that set the stage for each chapter concept statements interspersed throughout the chapter that keep first time students focused on key concepts and end of chapter questions and critical thinking activities This new edition will contribute to creating a genetically literate student population that understands basic biological research understands elements of the personal and health implications of genetics and participates effectively in public policy issues involving genetic information Includes topical material on forensics disease studies and the human genome project to engage non specialist students Full 4 color illustration program enhances and reinforces key concepts and themes Uniform organization of chapters includes interest boxes that focus on human health and disease chapter opening case studies and concept statements to engage non specialist readers

Bioinformatics of Genome Regulation and Systems Biology Yuriy L. Orlov, Ancha Baranova, 2020-09-17 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Encyclopedia of Human Genetics and Disease Evelyn B. Kelly, 2013-01-07 This two volume encyclopedia examines the history characteristics causes and treatment of genetic disease as well as the science of genetics itself Modern science has unlocked many of the mysteries of genetics providing a blueprint for understanding the origins behind previously mysterious ailments and conditions both common and uncommon A complete understanding remains elusive however geneticists are still refining theories about what causes chromosomes to mutate and genetic diseases remain difficult to diagnose and challenging to treat This fascinating reference explores the scientific and human aspects of this complex field of science Encyclopedia of Human Genetics and Disease features nearly 400 entries including well known genetic diseases rare and lesser known genetic diseases and the genetic factors that may contribute to common diseases and health conditions such as breast cancer and obesity The author presents in depth discussions of concepts essential to understanding genetic disease in 18 entries that provide background on key topics such as Genetics 101 the genome and the foundations of genetics genetic counseling and newborn screening Each of the 355 disorders profiled provides the history of the condition its prevalence causes treatment if any and further

reading Interesting sidebars and compelling photos that help inform content accompany many entries *Molecular Imaging of the Lungs* Daniel Schuster, Timothy Blackwell, 2005-05-23 This authoritative reference reviews current and emerging molecular imaging modalities that are expected to impact the detection and treatment of lung diseases in the near future including applications in gene expression and inflammation imaging the imaging of pulmonary cytokine regulation the molecular imaging of angiogenesis the airways and l **Regulation of Lactase and Sucrase-isomaltase Expression in the Human Colon Cancer Cell Line, Caco-2** Jean Qiaozhen Tian, 1996 **Chemistry** Trace Jordan, Neville R. Kallenbach, 2017 Chemistry The Molecules of Life offers chemical insights within the context of health pharmaceuticals and the function of biological molecules The contextualized presentation of topics gives students a broad introduction to chemistry and helps them to see the relevance of chemistry to their personal lives *The Origins of Grammar* James R. Hurford, 2012 The second in James Hurford's acclaimed two volume exploration of the biological evolution of language explores the evolutionary and cultural preconditions and consequences of humanity's great leap into language **Quality Control of Veterinary Vaccines in Developing Countries** Food and Agriculture Organization of the United Nations, 1993-01-01

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Table of Contents Regulation Of The Lactase Gene Answer

1. Understanding the eBook Regulation Of The Lactase Gene Answer
 - The Rise of Digital Reading Regulation Of The Lactase Gene Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Regulation Of The Lactase Gene Answer
 - 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 Regulation Of The Lactase Gene Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Regulation Of The Lactase Gene Answer

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

- Fact-Checking eBook Content of Regulation Of The Lactase Gene Answer
- 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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