

# 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 Lactase Gene Answers

**Julia E. Richards, R. Scott Hawley**



## **Regulation Of Lactase Gene Answers:**

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

**OCR A Level Biology Student Book 2** Adrian Schmit, Richard Fosbery, Jenny

Wakefield-Warren, 2016-10-31 Exam Board OCR Level A level Subject Biology First Teaching September 2015 First Exam June 2016 Encourage students to learn independently and build on their knowledge with this textbook that leads students seamlessly from basic biological concepts to more complicated theories Develop experimental analytical and evaluation skills with activities that introduce the practicals required by OCR and other experimental investigations in Biology Provide assessment guidance with synoptic questions and multiple choice questions throughout the book and revision tips and skills all in one chapter Strengthen understanding of key concepts with contemporary and engaging examples illustrated with accessible diagrams and images Give students the opportunity to apply their knowledge and understanding of all aspects of practical work with Test Yourself Questions and Exam Practice Questions Offer detailed guidance and examples of method with a dedicated Maths in Biology chapter and mathematical support throughout Develop understanding with free online access to answers an extended glossary learning outcomes and topic summaries

*Human Genes and Genomes* Leon E. Rosenberg, Diane Drobnis Rosenberg, 2012-05-18 In the nearly 60 years since Watson and Crick proposed the double helical structure of DNA the molecule of heredity waves of discoveries have made genetics the most thrilling field in the sciences The study of genes and genomics today explores all aspects of the life with relevance in the lab in the doctor s office in the courtroom and even in social relationships In this helpful guidebook one of the most respected and accomplished human geneticists of our time communicates the importance of genes and genomics studies in all aspects of life With the use of core concepts and the integration of extensive references this book provides students and professionals alike with the most in

depth view of the current state of the science and its relevance across disciplines Bridges the gap between basic human genetic understanding and one of the most promising avenues for advances in the diagnosis prevention and treatment of human disease Includes the latest information on diagnostic testing population screening predicting disease susceptibility pharmacogenomics and more Explores ethical legal regulatory and economic aspects of genomics in medicine Integrates historical classical genetics approach with the latest discoveries in structural and functional genomics CMBEBIH 2019 Almir Badnjevic, Ranko Škrbić, Lejla Gurbeta Pokvić, 2019-05-10 This volume gathers the proceedings of the International Conference on Medical and Biological Engineering which was held from 16 to 18 May 2019 in Banja Luka Bosnia and Herzegovina Focusing on the goal to Share the Vision it highlights the latest findings innovative solutions and emerging challenges in the field of Biomedical Engineering The book covers a wide range of topics including biomedical signal processing medical physics biomedical imaging and radiation protection biosensors and bioinstrumentation bio micro nano technologies biomaterials biomechanics robotics and minimally invasive surgery and cardiovascular respiratory and endocrine systems engineering Further topics include bioinformatics and computational biology clinical engineering and health technology assessment health informatics e health and telemedicine artificial intelligence and machine learning in healthcare as well as pharmaceutical and genetic engineering Given its scope the book provides academic researchers clinical researchers and professionals alike with a timely reference guide to measures for improving the quality of life and healthcare Metabolic Regulation in Mammals David Gibson, Robert A. Harris, 2001-11-22 Metabolic Regulation in Mammals presents the basic principles of metabolic control based on investigations conducted during the past 20 years It explains the impact of recent advances in cell biology molecular biology and genetics on the field This text covers all angles of metabolic regulation including blood caloric homeostasis cardiac and skeletal muscle adipose tissue and liver metabolism Review questions summary sections and worked examples help break down the complexity of the subject and details of metabolic pathways are provided for each body system along with accompanying charts This text is ideal for undergraduates in biological and health science disciplines **Vogel and Motulsky's Human Genetics** Friedrich Vogel, Arno G. Motulsky, 2013-06-29 The first edition of this book published in 1979 was found useful by many students and was well received by the scientific community Since the book was first written human genetics has undergone dramatic developments mainly due to the introduction of new concepts and techniques from molecular biology Concomitantly basic scientists have become increasingly interested in problems of human genetics More than 700 human genes have been mapped genes of previously unsuspected complexity such as the gene for factor VIII have become known and the structure of noncoding DNA sequences is being analyzed with the aim of understanding gene regulation DNA diagnosis is being rapidly introduced into medical genetics All this as well as the extensive progress in most other fields of human and medical genetics had to be considered in the preparation of this second edition The book has been extensively revised and rewritten A substantial new

section dealing with gene and chromosomal structure at the molecular level has been added The newer knowledge of molecular genetics has been incorporated and the conceptual and practical contribution of DNA methods for example in the hemoglobinopathies and in some other diseases is discussed Many new figures and tables have been added and some illustrative material has been replaced We have read carefully the many friendly and sometimes flattering reviews of the first edition

**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

**Encyclopedia of Medical Anthropology** Carol R. Ember,Melvin Ember,2003-12-31 Medical practitioners and the ordinary citizen are becoming more aware that we need to understand cultural variation in medical belief and practice The more we know how health and disease are managed in different cultures the more we can recognize what is culture bound in our own medical belief and practice The Encyclopedia of Medical Anthropology is unique because it is the first reference work to describe the cultural practices relevant to health in the world s cultures and to provide an overview of important topics in medical anthropology No other single reference work comes close to matching the depth and breadth of information on the varying cultural background of health and illness around the world More than 100 experts anthropologists and other social scientists have contributed their firsthand experience of medical cultures from around the world

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**Casarett & Doull's Toxicology: The Basic Science of Poisons, 9th Edition** Curtis D. Klaassen,2018-11-23 Toxicology's gold standard text completely updated to reflect the latest breakthroughs and discoveries A Doody's Core Title for 2024 2021 Casarett Doull's Toxicology The Basic Science of Poisons Ninth Edition equips you with an unsurpassed understanding of modern toxicology including the key principles concepts mechanisms chemical specific toxicity and modes of thought that are the foundation of the discipline This trusted classic not only delivers a comprehensive review of the essential components of toxicology it offers the most up to date revealing and in depth look at the systemic responses of toxic substance available anywhere Casarett Doull's Toxicology The Basic Science of Poisons Ninth Edition is logically divided into seven sections General Principles of Toxicology Disposition of Toxicants Non Organ Directed Toxicity Target Organ Toxicity Toxic Agents Environmental Toxicology Applications of Toxicology Many new contributors capture the progress made in toxicology over the past few years This edition is markedly updated from the previous edition with more than one third of the chapters authored by scientists who have not made previous contributions to the book Sharing their expertise they deliver dynamic new coverage of the importance of apoptosis autophagy cytokines growth factors oncogenes cell cycling receptors gene regulation protective mechanisms repair mechanisms transcription factors signaling pathways transgenic mice knock out mice humanized mice polymorphisms microarray technology second generation sequencing genomics proteomics epigenetics exposome microbiota read across adverse outcome pathways high content screening computational toxicology innovative test methods and organ on a chip in understanding the mechanisms of toxicity and the regulation of chemicals A true essential If you are in need of an up to date all in one overview of the biomedical and environmental aspects of toxicology written by experts and presented in full color your search ends here Cumulated Index Medicus ,2000 **Genetics of Industrial**

**Microorganisms** O. K. Sebek, Allen I. Laskin, 1979      **Medical Biochemistry: The Big Picture** Lee W. Janson, Marc Tischler, 2012-02-17 Get the BIG PICTURE of Medical Biochemistry and target what you really need to know to ace the course exams and the USMLE Step 1 300 FULL COLOR ILLUSTRATIONS Medical Biochemistry The Big Picture is a unique biochemistry review that focuses on the medically applicable concepts and techniques that form the underpinnings of the diagnosis prognosis and treatment of medical conditions Those preparing for the USMLE residents as well as clinicians who desire a better understanding of the biochemistry behind a particular pathology will find this book to be an essential reference Featuring succinct to the point text more than 300 full color illustrations and a variety of learning aids Medical Biochemistry The Big Picture is designed to make complex concepts understandable in the shortest amount of time possible This full color combination text and atlas features Progressive chapters that allow you to build upon what you ve learned in a logical effective manner Chapter Overviews that orient you to the important concepts covered in that chapter Numerous tables and illustrations that clarify and encapsulate the text Sidebars covering a particular disease or treatment add clinical relevance to topic discussed Essay type review questions at the end of each chapter allow you to assess your comprehension of the major topics USMLE style review questions at the end of each section Three appendices including examples of biochemically based diseases a review of basic biochemical techniques and a review of organic chemistry biochemistry

[Agrindex](#) , 1994      **Lactase gene expression** Edmond Henri Herman Maria Rings, 1994      **Life on Earth** Teresa Audesirk, Gerald Audesirk, 1997 The book has been carefully written to integrate the necessary biological facts into a broader conceptual framework that stresses unifying themes and the ways in which an understanding of biology can enrich and enlighten day to day living      *Lactose Intolerance* Dennis Savaiano, 2014-10-01

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