## Unit 2 - Molecular Genetics Activity

Knowledge	Thinking	Communication	Application
/20	/20	/20	/20

#### Introduction:

Person X is a person of interest for many molecular genetic related cases. As a Grade 12 Biology student, your recently learned knowledge and hard work throughout the molecular genetics unit is finally going to pay off as you volunteered to be the lead scientist(s) in all these cases, and making Ms. Sakran proud ©.

#### Case 1: Genetic Testing & DNA Mutations:

Person X has been having trouble digesting dairy products. A friend recommended that they have their DNA sequenced to check if their gene corresponding to making the lactase enzyme has any mutations in it and thus could be the issue. Therefore, Person X decided to go to a Genome X a genetics lab in Milton to have their DNA extracted and sequenced. Genome X used the following DNA extraction method, extracting Person X's DNA from their cheek cells. As the lead scientist(s) you are the one to conduct the DNA extraction from Person X and sequence their DNA.

 You conduct the DNA extraction using the following: https://learn.genetics.utah.edu/content/labs/extraction/ Describe the DNA extraction method you used. [4 Marks C]

You then isolate for the lactase gene in Person X, cut it out, and decide to conduct analysis on it. However, while cutting out the lactase gene you decide to keep some of the non-coding DNA surrounding the lactase gene so as not to destroy the beginning or end of the gene while cutting it. Your genome database contains the full normal genetic sequence of the lactase gene. You create the below DNA table with both sets of DNA.

	Coding Strand	
Normal	ATGATGGAGAAAGCCCATTGTTATAGGTGA	
Person X	TCTTCGCATGATGGAGAAAGCCCATTGATATAGGTGAAA	

# **Molecular Genetics Activity Answer Key**

**Prof. Peter J. Gregory** 

#### **Molecular Genetics Activity Answer Key:**

Abiotic stress: molecular genetics and genomics, Volume II Mukesh Jain, Rohini Garq, Rajeev K. Varshney, Prasanta Kumar CK-12 Biology Teacher's Edition CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher's Edition Subudhi. complements the CK 12 Biology Student Edition FlexBook Postdoctoral Research Fellowship Opportunities National Institutes of Health (U.S.), 1995 Genetic Response and Resistance in Plants towards Abiotic and Biotic Stresses, **2nd edition** Sushil Satish Chhapekar, Sachin Gorakshnath Chavan, 2024-12-20 Oxford Textbook of Children's Sport and Exercise Medicine Neil Armstrong, Willem van Mechelen, 2017 Now consisting of fifty innovative chapters authored by internationally recognised scientists and clinicians the extensively revised third edition of the Oxford Textbook of Children's Sport and Exercise Medicine is the fundamental reference work on paediatric exercise medicine and sport science Using a scientific evidence based approach and new insights into understanding the exercising child and adolescent this title covers a complex and rapidly evolving field Designed to inform challenge and support all involved in the study and treatment of the exercising child and adolescent the Oxford Textbook of Children's Sport and Exercise Medicine presents complex scientific and medical material in an accessible and understandable manner With extensive sections on Exercise Science Exercise Medicine Sport Science and Sport Medicine chapters comprehensively cover training physical activity in relation to health issues the physiology of the young athlete and injury using the research and practical experience of a renowned author team Fully illustrated and extensively revised new topics and fully updated material complement the state of the art approach of previous editions With an increased focus on molecular exercise physiology close to 75% of the content found in this edition is new material reflecting the many advances and developments across this discipline **Endocrinology - E-Book** J. Larry Jameson, Leslie J. De Groot, 2010-05-18 ENDOCRINOLOGY edited by J Larry Jameson MD PhD and Leslie J De Groot MD has been considered the definitive source in its field for decades Now this landmark reference has been exhaustively updated to bring you the latest clinical guidance on all aspects of diagnosis and treatment for the full range of endocrine and metabolism disorders including new information on diabetes obesity MEN I and II disorders of sex determination and pituitary tumors Entirely new chapters on Lipodystrophy Syndromes Lipoprotein Metabolism and Genetic Disorders of Phosphate Homeostasis keep you well informed on today s hot topics You ll benefit from unique global perspectives on adult and pediatric endocrinology prepared by an international team of renowned authorities This reference is optimally designed to help you succeed in your demanding practice and ensure the best possible outcomes for every patient Overcome virtually any clinical challenge with detailed expert coverage of every area of endocrinology authored by hundreds of leading luminaries in the field Provide state of the art care with comprehensive updates on diabetes obesity MEN I and II disorders of sex determination and pituitary tumors brand new chapters on Lipodystrophy Syndromes Lipoprotein Metabolism and Genetic Disorders of Phosphate Homeostasis expanded coverage of sports performance including testosterone androgen research

and bone growth and deterioration and the newest discoveries in genetics and how they affect patient care Make the best clinical decisions with an enhanced emphasis on evidence based practice in conjunction with expert opinion Rapidly consult with trusted authorities thanks to new expert opinion treatment strategies and recommendations Zero in on the most relevant and useful references with the aid of a more focused concise bibliography Locate information more quickly while still getting the complete coverage you expect Genetic Diagnosis of Endocrine Disorders Roy E. Weiss, Samuel Refetoff, 2010-06-03 Since the beginning of the current century endocrine disease diagnosis and treatment have moved beyond the standard hormone measurements While indeed elevated thyroid hormone levels or low insulin levels signal a specific endocrine disease correct diagnosis and therefore correct treatment depends on an understanding of the molecular basis for the disease This book presents the bench to bedside approach of our understanding of the genetic basis for endocrine disease It is organized by endocrine grouping e g Thyroid Pancreas Parathyroid Pituitary Adrenal Reproductive and Bone and genetic molecular basis for the diagnosis of the various disorders will be discussed Emphasis will be placed on the practical nature of diagnosing a disease For example 1 Which tests should be done for the diagnosis of Diabetes mellitus Type I in children who presented at less than 6 months at less than 12 years in adulthood etc and why should those tests be done 2 Which genes should be evaluated for subjects with congenital hypothyroidism 3 Which genetic tests should be ordered in obesity 4 Which genetic test should be ordered in a patient with Parathyroid Carcinoma 5 What is the rationale behind testing for Multiple Endocrine Neoplasia The field of genetic diagnosis of disease is exploding now with multiple laboratories developing tests for current clinical use Most practicing endocrinologists pediatricians and internal medicine physicians don t understand which test to order how the tests are done or how to interpret the results One of the most exciting development in medicine today is the pharmacogenomics revolution enocrinologists and geneticists need to understand how personalized medicine will fit into the daily care of patients While this is a quickly growing area and there are textbooks on pharmacogenomics there is no one source for the spectrum of Endocrine diseases Selected for inclusion in Doody's Core Titles 2013 an essential collection development tool for health sciences libraries Presents a comprehensive translational look at all aspects of genetic diagnosis of endocrine disorders in one reference work Endocrinology experts the researchers who discovered the majority of the gene mutations for a particular disease teach readers about the molecular basis for diseases in each major endocrine organ system Clear presentation by geneticists of pharmacogenetics and the actual assays used in detecting endocrine diseases Genetic counselors offer expert advice on how to use genetic information Principles of Development Lewis Wolpert, Cheryll Tickle, 2011-01-27 Principles of Development in counseling patients reveals the universal principles that govern the process of development illustrating how a highly complex living organism forms from just a single fertilized egg Fourth in Series on Medicare Reform United States. Congress. House. Committee on Ways and Means. Subcommittee on Health, 2001 **Neuroscience in the 21st Century** Donald W. Pfaff, Nora D.

Volkow, John L. Rubenstein, 2022-10-17 Edited and authored by a wealth of international experts in neuroscience and related disciplines this key new resource aims to offer medical students and graduate researchers around the world a comprehensive introduction and overview of modern neuroscience Neuroscience research is certain to prove a vital element in combating mental illness in its various incarnations a strategic battleground in the future of medicine as the prevalence of mental disorders is becoming better understood each year Hundreds of millions of people worldwide are affected by mental behavioral neurological and substance use disorders The World Health Organization estimated in 2002 that 154 million people globally suffer from depression and 25 million people from schizophrenia 91 million people are affected by alcohol use disorders and 15 million by drug use disorders A more recent WHO report shows that 50 million people suffer from epilepsy and 24 million from Alzheimer's and other dementias Because neuroscience takes the etiology of disease the complex interplay between biological psychological and sociocultural factors as its object of inquiry it is increasingly valuable in understanding an array of medical conditions A recent report by the United States Surgeon General cites several such diseases schizophrenia bipolar disorder early onset depression autism attention deficit hyperactivity disorder anorexia nervosa and panic disorder among many others Not only is this volume a boon to those wishing to understand the future of neuroscience it also aims to encourage the initiation of neuroscience programs in developing countries featuring as it does an appendix full of advice on how to develop such programs With broad coverage of both basic science and clinical issues comprising around 150 chapters from a diversity of international authors and including complementary video components Neuroscience in the 21st Century in its third edition serves as a comprehensive resource to students and researchers alike

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knowledge namely that while some individuals point to research studies as the foundation of truth others argue that clinical experience offers a more adequate understanding of the causes assessment and treatment of mental illness The Great Ideas of Clinical Science is an ambitious attempt to dig beneath these fundamental differences and reintroduce the reader to unifying principles often overlooked by students and professionals alike The editors have identified 17 such universals and have pulled together a group of the most prolific minds in the field to present the philosophical methodological and conceptual ideas that define the state of the field Each chapter focuses on practical as well as conceptual points offering valuable insight to practicing clinicians researchers and teachers of any level of experience Written for student practitioner researcher and educated layperson this integrative volume aims to facilitate communication among all mental health professionals and to narrow the scientist practitioner gap Acute Promyelocytic Leukemia Oussama Abla, Francesco Lo Coco, Miguel A. Sanz, 2018-04-25 This book provides a comprehensive overview on the clinical issues and biology of acute promyelocytic leukemia APL and on the molecular mechanisms of targeted therapy with ATRA and ATO The text covers major topics such as the pathophysiology of APL coagulopathy biologic and clinical differences between children and adults with APL and the role of minimal residual disease monitoring Additionally the book summarizes historical current and future treatment strategies in both adults and children while highlighting the most recent therapeutic recommendations for relapsed disease and the evolving indications for autologous and allogeneic stem cell transplant This volume also features chapters focusing on secondary APL and therapy late effects rare presentations such as APL in the elderly and during pregnancy and rare APL variants that may represent the rapeutic challenges Written by top experts in the field Acute Promyelocytic Leukemia A Clinical Guide is a valuable resource for clinicians and researchers who treat and investigate this disease in children and adults Structure and Regulation of the Notch Signaling Pathway in the Development of the Peripheral Nervous System of the Drosophila Adult Adina Michele Bailey, 1996 Adaptive Systems in Drug Design Gisbert Schneider, Sung-Sau So, 2002-10-01 A brief history of drug design presented to make clear that there are fashions in this important field and that they change rather rapidly This is due in part to the fact that the way that a new paradigm is accepted in a drug company often does not depend on its scientific merit alone Genetic Diseases of the Kidney Richard P. Lifton, Stefan Somlo, Gerhard H. Giebisch, Donald W. Seldin, 2009-02-25 Genetic approaches have revolutionized our understanding of the fundamental causes of human disease by permitting the identification of specific genes in which variation causes or contributes to susceptibility to or protection from disease More than 2 000 disease genes have been identified in the last 20 years providing important new insight into the pathophysiology of diseases in every field of medicine Genetic Diseases of the Kidney offers expert insight into the role of genetic abnormalities in the pathogenesis of abnormal kidney function and kidney disease Genetic abnormalities are carefully presented within the appropriate physiologic context so that readers will understand not only which genes are linked to which diseases but also which pathways lead from a

genetic disturbance to the systemic appearance of disease Lays the essential foundation of mammalian genetics principles for medical professionals with little or no background in genetics Analyzes specific renal diseases both monogenic disorders confined to the kidney and systemic diseases with renal involvement and explains their genetic causes World renowned editors and authors offer expert frameworks for understanding the links between genes and complex clinical disorders i e lupus diabetes HIV and hypertension **Understanding and improving crop root function** Prof. Peter J. Gregory, 2021-01-19 Comprehensive review of key topics in root science including root architecture root growth regulators root anatomy and nutrient acquisition Coverage of root response to both biotic and abiotic variables Discusses the range of techniques to optimize root function from phenotyping to identify desirable root traits and exploiting the genetics of root traits to the use of plant growth promoting rhizobacteria PGPR and arbuscular mycorrhizal fungi AM Acids—Advances in Research and Application: 2013 Edition, 2013-06-21 Amino Acids Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Canavanine The editors have built Amino Acids Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Canavanine in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Amino Acids Advances in Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com UGC NET Paper II Life Science (Vol 2) Topic-wise Notes (English Edition) | A Complete Preparation Study Notes to Ace Your Exams Mr. Rohit Manglik, 2023-06-30 EduGorilla's UGC NET Paper II Life Science Vol 2 Study Notes are the best selling notes in the English edition Their content is well researched and covers all topics related to UGC NET Paper II Life Science Vol 2 The notes are designed to help students prepare thoroughly for their exams with topic wise notes that are comprehensive and easy to understand These notes include Topics such as Cell Communication and Cell Signaling Development Biology and System Physiology Plant These notes are perfect for understanding the pattern and type of questions asked by NTA These study notes are tailored to the latest syllabus of UGC NET Paper II Life Science Vol 2 exams making them a valuable resource for exam preparation Index Medicus, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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