

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

Siamon Gordon



Molecular Genetics Activity Answer Key:

Abiotic stress: molecular genetics and genomics, Volume II Mukesh Jain, Rohini Garg, Rajeev K. Varshney, Prasanta Kumar Subudhi, CK-12 Biology Teacher's Edition CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher's Edition complements the CK 12 Biology Student Edition FlexBook Postdoctoral Research Fellowship Opportunities National Institutes of Health (U.S.), 1995 **National Institutes of Health Annual Report of International Activities** John E. Fogarty International Center for Advanced Study in the Health Sciences, 1993 **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 **Introduction to Health Services** Stephen Joseph Williams, Paul Roger Torrens, 2002 Introduction to Health Services Sixth Edition builds upon its reputation as a classic book written by nationally recognized authors This new edition addresses the significant changes and advances in biomedical research government policy information technology and health care cost containment Back cover *Research Awards Index*, 1981 *Plant Signaling Molecules* M. Iqbal R. Khan, Palakolanu Sudhakar Reddy, Antonio Ferrante, Nafees A Khan, 2019-03-15 Plant Signaling Molecule Role and Regulation under Stressful Environments explores tolerance mechanisms mediated by signaling molecules in plants for achieving sustainability under changing environmental conditions Including a wide range of potential molecules from primary to secondary metabolites the book presents the status and future prospects of the role and regulation of signaling molecules at physiological biochemical molecular and structural level under abiotic stress tolerance This book is designed to enhance the mechanistic understanding of signaling molecules and will be an important resource for plant biologists in developing stress tolerant crops to achieve sustainability under changing environmental conditions Focuses on plant biology under stress conditions Provides a compendium of knowledge related to plant adaptation physiology biochemistry and molecular responses Identifies treatments that enhance plant tolerance to

abiotic stresses Illustrates specific physiological pathways that are considered key points for plant adaptation or tolerance to abiotic stresses **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Comprehensive Textbook on Vitiligo Vineet Relhan,Vijay Kumar Garg,Sneha Ghunawat,Khushbu Mahajan,2020-09-16

Vitiligo is a disorder having a significant impact in dark skinned individuals Along with the historical cultural and psychological aspects of the disease the multifactorial pathogenesis of this disorder is discussed in detail with special emphasis on the newer hypotheses proposed in the causation Descriptions of the clinical aspects of the disease are supplemented with clinical photographs covering the latest therapeutic and surgical treatment options Nonconventional treatments such as cosmetic camouflage and tattooing are also discussed Topics of controversy such as the role of diet patient selection for surgery and so on are covered in depth Key Features Discusses the recent advances in treatment Evidence based approach Quality of life and psychological aspects covered Nonconventional treatment options included with practical tips on vitiligo surgery Controversial topics covered

Myeloid Cells in Health and Disease Siamon Gordon,2020-07-10 The structure functions and interactions of myeloid cells have long been the focus of research and therapeutics development Yet much more remains to be discovered about the complex web of relationships that makes up the immune systems of animals Scientists today are applying genome wide analyses single cell methods gene editing and modern imaging techniques to reveal new subclasses of differentiated myeloid cells new receptors and cytokines and important interactions among immune cells In *Myeloid Cells in Health and Disease* A Synthesis Editor Siamon Gordon has assembled an international team of esteemed scientists to provide their perspectives of myeloid cells during innate and adaptive immunity The book begins by presenting the foundational research of Paul Ehrlich Elie Metchnikoff and Donald Metcalf The following chapters discuss evolution and the life cycles of myeloid cells specific types of differentiated myeloid cells including macrophage differentiation and antigen processing and presentation The rest of the book is organized by broad topics in immunology including the recruitment of myeloid and other immune cells following microbial infection the role of myeloid cells in the inflammation process and the repair of damaged tissue the vast arsenal of myeloid cell secretory molecules including metalloproteinases tumor necrosis factor histamine and perforin receptors and downstream signaling pathways that are activated following ligand receptor binding roles of myeloid cells during microbial and parasite infections contributions of myeloid cells in atherosclerosis myeloid derived suppressor cells in tumor development and cancer *Myeloid Cells in Health and Disease* A Synthesis will benefit graduate students and researchers in immunology hematology microbial pathogenesis infectious disease pathology and pharmacology Established scientists and physicians in these and related fields will enjoy the book s rich history of myeloid cell research and suggestions for future research directions and potential therapies

Neurobiology of Depression Joao L. de Quevedo,Andre Ferrer Carvalho,Carlos A. Zarate,2019-01-03 *Neurobiology of Depression* Road to Novel Therapeutics synthesizes the basic neurobiology of major depressive disorder with

discussions on the most recent advances in research including the interacting pathways implicated in the pathophysiology of MDD omics technologies genetic approaches and the development of novel optogenetic approaches that are changing research perspectives and revolutionizing research into depression These basic foundational understandings on the neurobiology underlying the disorder along with a comprehensive summary of the most recent advances in research are combined in this book to aid advanced students and researchers in their understanding of MDD Depression is one of the most common mental health disorders caused by a variety of genetic biological environmental and psychological factors Major depressive disorder MDD is typically treated with first line antidepressant agents that primarily target monoamine neurotransmission However only approximately one third of patients with MDD achieve remission following a trial with such an antidepressant Furthermore MDD is a heterogeneous phenotype and new frameworks such as the NIMH Research Domain Criteria RDoC may provide a more accurate biologically based comprehension of the symptomatic heterogeneity of this devastating illness Aids readers in understanding major depressive disorder in the context of NIMH Research Domain Criteria RDoC recommendations Covers a range of existing and potential pharmacologic and non pharmacologic treatment options from lifestyle adjustments to antidepressants and novel therapeutics Synthesizes discussions on the cellular and molecular mechanisms underlying symptoms with the clinical aspects of depression

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 *Bibliography of Agriculture with Subject Index* ,1993-10 *Shaping the Brain by Neuronal Cytoskeleton: from Development to Disease and Regeneration* C. Laura Sayas, Monica Mendes Sousa, Jesus Avila, 2020-03-25 The Zoological Record ,2003 **Clinical Neuroscience E-Book** Paul Johns, 2014-04-17 This book provides a clear and readable introduction to the central concepts of clinical neuroscience The first part of the book deals with fundamental areas of neuroscience required for a sound understanding of brain disease This is followed by an account of the neurobiology of the most common and important brain diseases of the western world stroke epilepsy Alzheimer s disease Parkinson s disease and multiple sclerosis The book is in the same general style as the successful Crossman *Neuroanatomy* with extensive colour illustrations Short affordable and readable introductory level text in the same style as Crossman *Neuroanatomy* Assumes little previous neuroscience knowledge Explains fundamental concepts without overwhelming detail Focuses on clinically relevant material Includes the most common and important neurological disorders **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 endocrinologists 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 in counseling patients **Principles of Development**
Lewis Wolpert,Cheryll Tickle,2011-01-27 Principles of Development reveals the universal principles that govern the process of development illustrating how a highly complex living organism forms from just a single fertilized egg **CSIR NET Life Science - Unit 8 - I-Genetics** Mr. Rohit Manglik,2024-07-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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