

Mutations Worksheet

Name _____

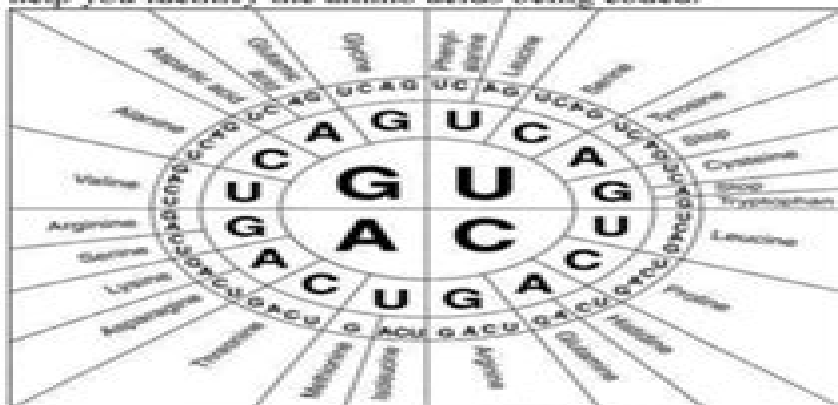
Mutations Worksheet - Deletion, Insertion & Substitution

There are several types of mutations:

- **DELETION** (a base is lost/deleted)
- **INSERTION** (an extra base is added/inserted)
 - Deletion & insertion may cause what's called a **FRAMESHIFT** mutation, meaning the **reading "frame"** changes, thus changing the amino acid sequence from this point forward
- **SUBSTITUTION** (one base is substituted for another)
 - If a substitution **changes** the amino acid, it's called a **MISSENSE** mutation
 - If a substitution **does not change** the amino acid, it's called a **SILENT** mutation
 - If a substitution **changes the amino acid to a "stop,"** it's called a **NONSENSE** mutation



In each of the following DNA sequences, you will use the mRNA and amino acid sequences to identify the mutation that occurred and the effects of each on, if any. Look and analyze carefully! Use the table below to help you identify the amino acids being coded:



Original DNA Sequence: **T A C A C C T T G G C G A C G A C T**

mRNA Sequence: _____

Amino Acid Sequence: _____

Mutated DNA Sequence #1: **T A C A T C T T G G C G A C G A C T**

What's the mRNA sequence? (Circle the change) _____

What will be the amino acid sequence? _____

Will there likely be effects? _____

What kind of mutation is this (frameshift, missense, silent, nonsense)? _____

Mutated DNA Sequence #2: **T A C G A C C T T G G C G A C G A C T**

What's the mRNA sequence? (Circle the change) _____

What will be the amino acid sequence? _____

Will there likely be effects? _____

What kind of mutation is this (frameshift, missense, silent, nonsense)? _____

Gene Mutation Activity Answer Key

**Hans D. Ochs, MD, Dr.med, C. I. Edvard
Smith, PhD, Jennifer M. Puck, MD**

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Grammar and Beyond Level 2 Teacher Support Resource Book with CD-ROM Randi Reppen, Deborah Gordon, 2012-01-16 Based on extensive research Grammar and Beyond ensures that students study accurate information about grammar and apply it in their own speech and writing The Grammar and Beyond Teacher Support Resource Book with CD ROM Level 2 provides suggestions for applying the target grammar to all four major skill areas helping instructors facilitate dynamic and comprehensive grammar classes an answer key and audio script for the Student s Book a CD ROM containing ready made easily scored Unit Tests as well as 32 PowerPoint presentations to streamline lesson preparation and encourage lively heads up interaction

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Prentice Hall Science Anthea Maton, Jill D. Wright, Jean Hopkins, Susan Johnson, David Lahart, Maryanna Quon Warner, 1994 ,

Cancer Prevention and Management through Exercise and Weight Control Anne McTiernan, 2016-04-19 it is increasingly clear that cancer is also a disease of inertia In this book a broadly multidisciplinary group presents the evidence and provides the recommendations The antidote to diseases of inertia is movement let s move John Potter M D Ph D from the Foreword The American Cancer Society estimates that a third of all cancer deaths could be prevented through avoidance of obesity and the rejection of sedentary lifestyles The World Health Organization also supports this claim Additionally these and other organizations now recognize the role that activity can play in improving the quality of life for cancer patients Cancer Prevention and Management through Exercise and Weight Control provides us with the support necessary to make a call to action It brings together the contributions of world class researchers to lay out the evidence and a plan of attack for coping with this crisis The text begins by focusing on the research methods used in assessing the complex associations between activity energy balance and risk and prognosis In comprehensive literature reviews the authors consider the role of physical activity in the incidence of individual cancers then explore the mechanisms that might explain this connection They continue with a look at the relation between weight and cancer incidence including a consideration of genetics Research is also provided linking physical activity and weight control to a cancer patient s quality of life and prognosis The work concludes with ideas on how a plan of action might be implemented at the individual clinical and public health levels It also provides guidance on incorporating exercise and diet recommendations into clinical oncology practice

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Epilepsy in Children, 2E Sheila J Wallace, Kevin Farrell, 2004-02-27 Epilepsy is the most common neurological disorder of childhood occurring both in children whose physical and cognitive states are otherwise normal as well as being a facet of a more generalised and severe brain disease There are many manifestations of epilepsy and therefore a diversity of factors in underlying pathology responses to treatment and prognosis Full understanding requires knowledge of the basic science that underlies epilepsy and its causes and an appreciation of cognitive psychiatric and social factors This book is a comprehensive and up to date review of all aspects of childhood epilepsy for the specialist neurologist or paediatrician with an interest in this area The first edition was praised for its valuable clinical approach to examining the nature of epileptic syndromes and for its appropriate and readable coverage of the underlying basic science features that are retained and expanded upon in this revision Particular updates include full coverage of new developments in epidemiology genetics classification imaging drug therapy and other treatments Several new chapters have been added covering eyelid myoclonia Rasmussen s syndrome cognitive and behavioural manifestations of epilepsy and vagal nerve stimulation This book is essential reading for paediatric neurologists epileptologists and paediatricians and will continue to provide invaluable support for any physician confronted by a child with epilepsy

Advanced AI Techniques and Applications in Bioinformatics Loveleen Gaur, Arun Solanki, Samuel Fosso Wamba, Noor Zaman Jhanjhi, 2021-10-17 The advanced AI techniques are essential for resolving various problematic aspects emerging in the field of bioinformatics This book covers the recent approaches in artificial intelligence and machine learning

methods and their applications in Genome and Gene editing cancer drug discovery classification and the protein folding algorithms among others Deep learning which is widely used in image processing is also applicable in bioinformatics as one of the most popular artificial intelligence approaches The wide range of applications discussed in this book are an indispensable resource for computer scientists engineers biologists mathematicians physicians and medical informaticists Features Focusses on the cross disciplinary relation between computer science and biology and the role of machine learning methods in resolving complex problems in bioinformatics Provides a comprehensive and balanced blend of topics and applications using various advanced algorithms Presents cutting edge research methodologies in the area of AI methods when applied to bioinformatics and innovative solutions Discusses the AI ML techniques their use and their potential for use in common and future bioinformatics applications Includes recent achievements in AI and bioinformatics contributed by a global team of researchers

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Glucokinase and Glycemic Diseases Franz M. Matschinsky, Mark A. Magnuson, 2004 The glucose phosphorylating enzyme glucokinase also known as hexokinase IV plays a preeminent role as a glucose sensor and regulatory metabolic enzyme The implications of this central position of glucokinase for the understanding and treatment of diabetes mellitus are far reaching This book addresses the molecular and human genetic as well as the physiological chemical and pharmacological aspects of the role glucokinase plays in glucose homeostasis and diseases of glucose metabolism and how the enzyme serves as the drug target for the treatment of diabetes mellitus The collection of assays by a team of internationally renowned authors includes basic science chapters dealing with the enzymology structure and the kinetics of hexokinases essays describing the biochemical genetics of glucokinase linked hypo and hyperglycemia syndromes and papers

that discuss the diverse roles of the enzyme in a variety of tissues Finally the book contains the latest information on the recently discovered class of weight drugs that activate glucokinase i e glucokinase activators or GKAs This volume is of great interest to basic and clinical diabetes researchers geneticists biochemists physiologists and pharmacologists

Medical-Surgical Nursing - E-Book Donna D. Ignatavicius,M. Linda Workman,2015-01-30 Using a unique collaborative care approach to adult health nursing Medical Surgical Nursing Patient Centered Collaborative Care 8th Edition covers the essential knowledge you need to succeed at the RN level of practice Easy to read content includes evidence based treatment guidelines an enhanced focus on QSEN competencies and an emphasis on developing clinical judgment skills This edition continues the book s trendsetting tradition with increased LGBTQ content and a new Care of Transgender Patients chapter Written by nursing education experts Donna Ignatavicius and M Linda Workman this bestselling text also features NCLEX Exam style challenge questions to prepare you for success on the NCLEX Exam Cutting edge coverage of the latest trends in nursing practice and nursing education prepares you not just for today s nursing practice but also for tomorrow s

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Primary Immunodeficiency Diseases Hans D. Ochs, MD, Dr.med, C. I. Edvard Smith, PhD, Jennifer M. Puck, MD, 2013-11-01 Primary immunodeficiency diseases first recognized 60 years ago are inherited disorders that affect human adaptive and innate immunity In most cases affected individuals experience recurrent infections but they may also suffer from autoimmune diseases and malignancies This third edition of *Primary Immunodeficiency Diseases* provides readers with the historic and scientific background clinical presentations immunologic characteristics and the molecular genetic underpinnings of this rapidly enlarging class of diseases With up to date diagnostic tools and therapeutic options from prophylactic anti infective measures to hematopoietic stem cell transplantation and gene therapy this volume will remain an authoritative resource on this increasingly important area

Nucleic Acid-Associated Inflammation Nadine Laguette, Christelle Langevin, David Olagnier, Vincenzo Torraca, Claire Isabelle Vanpouille-Box, Eloi R. Verrier, 2021-12-30

SET Life Science: Solved Exam Questions Kailash Choudhary, D. Sondge, R.P. Saran, N. Soni, 2017-12-01 The present book *SET Life Science Solved Papers* is specially developed for the aspirants of SET Life Sciences Examinations This book includes previous solved papers SET Life Science papers of Maharashtra Andhra Pradesh Karnataka Tamil Nadu Kerala Gujarat and Rajasthan Main objective of this book is to develop confidence among the candidates appearing for SET examination in the field of Life Sciences Both fundamental and practical aspects of the subject have been covered by solved questions This book meets the challenging requirements of CSIR NET GATE IARI BARC and Ph D entrance of various Indian universities

Molecular Pathology William B. Coleman, Gregory J. Tsongalis, 2009-02-10 *Molecular Pathology The Molecular Basis of Human Disease* provides a current and comprehensive view of the molecular basis and mechanisms of human disease Combining accepted principles with broader theoretical concepts and with contributions from a group of experts the book looks into disease processes in the context of traditional pathology and their implications for translational molecular medicine It also discusses concepts in molecular biology and genetics recent scientific and technological advances in modern pathology the concept of molecular pathogenesis of disease and how disease evolves from normal cells and tissues due to perturbations in molecular pathways The book describes the integration of molecular and cellular pathogenesis using a bioinformatics approach and a systems biology approach to disease pathogenesis It also discusses current and future

strategies in molecular diagnosis of human disease and the impact of molecular diagnosis on treatment decisions and the practice of personalized medicine This book is a valuable resource for students biomedical researchers practicing physician scientists who undertake disease related basic science and translational research and pathology residents and other postdoctoral fellows Exam Master web site will host Self assessment questions that students can use to study for the molecular section of the board exam Teaches from the perspective of integrative systems biology which encompasses the intersection of all molecular aspects of biology as applied to understanding human disease Outlines the principles and practice of molecular pathology Explains the practice of molecular medicine and the translational aspects of molecular pathology

The Role of Different Subcellular Organelles in DNA Damage Response Guoping Zhao,Lijun Wu,Shengmin Xu,Daoxiang Zhang,Randy Y. C. Poon,2021-12-30

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