

NAME \_\_\_\_\_

## Mutations Worksheet

### Deletion, Insertion & Substitution



There are several types of mutations:

- > **DELETION** (a base is lost/deleted)
  - 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
- > **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



Complete the boxes below. Classify each as **Deletion**, **Insertion** or **Substitution** **AND** as either **frameshift**, **missense**, **silent** or **nonsense** (**Hint**: Deletion & Insertion will always be frameshift).

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

mRNA Sequence: A U G U G G A A C C G C U G C U G A

Amino Acid Sequence: MET - TRP - ASN - ARG - CYS - STOP

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? A U G U A G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - 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? A U G C U G G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - LEU - GLU - PRO - LEU - LEU

Will there likely be effects? yes What type of mutation is this? insertion - frameshift

Mutated DNA Sequence #3 T A C A C C T T A G C G A C G A C T ...

What's the mRNA sequence? A U G U G G A A C G C U G C U G A (Circle the change)

amino acid sequence? MET-TRP-ASN- ARG- CYS - STOP

Will there likely be effects? no What type of mutation is this? point mutation - silent

Mutated DNA Sequence #4 T A C A C C T T G G C G A C T A C T ...

What's the mRNA sequence? A U G U G G A A C C G C U G A U G A (Circle the change)

amino acid sequence? MET - TRP - ASN - ARG - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - nonsense

# Gene Mutation Packet Answers

**Sue Friedman, Rebecca Sutphen, Kathy  
Steligo**

## Gene Mutation Packet Answers:

Genetic Algorithms and Engineering Optimization Mitsuo Gen, Runwei Cheng, 1999-12-28 A comprehensive guide to a powerful new analytical tool by two of its foremost innovators The past decade has witnessed many exciting advances in the use of genetic algorithms GAs to solve optimization problems in everything from product design to scheduling and client server networking Aided by GAs analysts and designers now routinely evolve solutions to complex combinatorial and multiobjective optimization problems with an ease and rapidity unthinkable with conventional methods Despite the continued growth and refinement of this powerful analytical tool there continues to be a lack of up to date guides to contemporary GA optimization principles and practices Written by two of the world's leading experts in the field this book fills that gap in the literature Taking an intuitive approach Mitsuo Gen and Runwei Cheng employ numerous illustrations and real world examples to help readers gain a thorough understanding of basic GA concepts including encoding adaptation and genetic optimizations and to show how GAs can be used to solve an array of constrained combinatorial multiobjective and fuzzy optimization problems Focusing on problems commonly encountered in industry especially in manufacturing Professors Gen and Cheng provide in depth coverage of advanced GA techniques for Reliability design Manufacturing cell design Scheduling Advanced transportation problems Network design and routing Genetic Algorithms and Engineering Optimization is an indispensable working resource for industrial engineers and designers as well as systems analysts operations researchers and management scientists working in manufacturing and related industries It also makes an excellent primary or supplementary text for advanced courses in industrial engineering management science operations research computer science and artificial intelligence

*Review Questions and Answers for Dental Assisting - E-Book* Mosby, Betty Ladley Finkbeiner, 2013-05-15 NEW Now with five times the practice of the CDA exam 640 new questions give you more opportunities master content and gain test taking confidence NEW UNIQUE An additional 150 questions that correspond to existing and new expanded functions in certain states ensure that you are prepared for exam success in any state you wish to practice NEW UNIQUE Companion website includes a database of exam questions and a custom test generator to mimic the CDA exam along with the expanded functions questions grouped by state and topic to give you real world test taking experience

**Proceedings of the Seventh International Conference on Genetic Algorithms** Thomas Bäck, 1997  
Proceedings of the biennial International Conference on Genetic Algorithms available for 1989 present

**Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease** Barbara Janson Cohen, Memmler, 1996

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2000 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies, 1999

Mammalogy Terry A. Vaughan, James M. Ryan, Nicholas J.

Czaplewski, 2013-12-11 Mammalogy is the study of mammals from the diverse biological viewpoints of structure function

evolutionary history behavior ecology classification and economics Thoroughly updated the Sixth Edition of Mammalogy explains and clarifies the subject as a unified whole The text begins by defining mammals and summarizing their origins It moves on to discuss the orders and families of mammals with comprehensive coverage on the fossil history current distribution morphological characteristics and basic behavior and ecology of each family of mammals The third part of the text progresses to discuss special topics such as mammalian echolocation physiology behavior ecology and zoogeography The text concludes with two additional chapters previously available online that cover mammalian domestication and mammalian disease and zoonoses

**Final FRCR 2B Long Cases** Jessie Aw, John Curtis, 2010-06-03 Part 2B of the FRCR examination for trainee radiologists involves six long cases which can contain images of any body system and any imaging modality plain film CT MRI ultrasound nuclear medicine and contrast studies FRCR 2B A Guide to the Long Cases contains 60 highly illustrated long cases and answers organised into 10 sets of 6 cases The cases are based on the format of the exam and the answers are at the level of detail the candidate would be expected to provide in the time allocated An introductory section explains the College's marking scheme and advises on the best approach to the long cases and how to structure an answer A succinct topic review is provided with each case Jointly edited by a successful FRCR fellow and an experienced consultant radiologist FRCR 2B A Guide to the Long Cases is essential reading for all exam candidates

*Quantum State Diffusion* Ian Percival, 1998-12-10 The first book devoted to quantum state diffusion suitable for graduate students and researchers

Food Questions and Answers, 1981

**Computational Intelligence in Telecommunications Networks** Witold Pedrycz, Athanasios Vasilakos, 2018-10-03 Telecommunications has evolved and grown at an explosive rate in recent years and will undoubtedly continue to do so As its functions applications and technology grow it becomes increasingly complex and difficult if not impossible to meet the demands of a global network using conventional computing technologies Computational intelligence CI is the technology of the future and the future is now Computational Intelligence in Telecommunications Networks offers an in depth look at the rapid progress of CI technology and shows its importance in solving the crucial problems of future telecommunications networks It covers a broad range of topics from Call Admission Control congestion control and QoS routing for ATM networks to network design and management optical mobile and active networks and Intelligent Mobile Agents Today's telecommunications professionals need a working knowledge of CI to exploit its potential to overcome emerging challenges The CI community must become acquainted with those challenges to take advantage of the enormous opportunities the telecommunications field offers This text meets both those needs clearly concisely and with a depth certain to inspire further theoretical and practical advances

**Educators' Index of Free Materials**, 1996

*Department of Defense Chemical, Biological, Radiological, and Nuclear Defense Program Annual Report to Congress 2002*,

**Clinical Pathology Board Review E-Book** Suzanne Arinsburg, Jeffrey Jhang, 2024-11-12 Covering all of the major subject areas of this complex field Clinical Pathology Board Review 2nd Edition is the ultimate guide for those

preparing to take certification recertification and specialty board exams This essential study guide has been revised from cover to cover making it an excellent review tool for exam prep as well as a handy update for practicing pathologists who want to stay current with the latest advancements in the field Covers all of the major subject areas of clinical pathology tested on the Clinical Pathology board exam including chemistry hematology coagulation microbiology immunology including HLA testing transfusion medicine including therapeutic apheresis cytogenetics and molecular diagnostics Contains multiple choice questions including hundreds of new questions offered in a format that mimics that of the actual test along with brief explanations of why answers are correct or incorrect Includes questions that integrate various areas of clinical pathology as well as questions that bridge concepts in clinical pathology with those in anatomic pathology Shares the knowledge and expertise of new section editors and authors who bring fresh perspectives and features an all new organization and greatly revised content throughout Addresses key topics such as toxicology and therapeutic drug monitoring endocrine pathology and cancer biomarkers Helps you review key concepts in laboratory medicine correlate them to the associated clinical or laboratory information and apply them to the diagnosis and management of human disease Provides online access to all of the questions in the print book along with additional interactive questions *Mosaic*, 1991 **The Choice** V. P.

Nightshade, 2021-07-09 Leila Sutton thought she was a normal wife and young mother All she ever wanted was to give her children a safe stable loving home Then the Change started and He entered her life He spoke to her heart and soul like no man had before and took her to heights of passion that she hadn't known existed For him she broke all her rules But would she have to sacrifice her soul to protect her children Readers of paranormal vampire romance will love this contemporary story about the struggle over who we love what we choose and the things that are chosen for us Tags Paranormal romance romantica vampire romance the choice romantasy vampire mate vampire human romance **Confronting Hereditary**

**Breast and Ovarian Cancer** Sue Friedman, Rebecca Sutphen, Kathy Steligo, 2012-03 This book defines issues facing previvors and survivors of breast and ovarian cancer Including information about genetic counseling and testing preventive surgery and fertility and family planning as well as explanations of health insurance coverage and laws protecting genetic privacy this title tackles the challenges of living in a high risk body **Mental Nurses Training Manual** David 'Khyber'

Close, 2023-05-03 Back at the end of the 1970s three hundred copies of Neglect Violence Mental Nurse's Training Manual were released by Wombat Printing NL to friends and the nurse's underground Forty plus years later it is now released to the public with little danger of litigation regarding libel or defamation The back cover blurb for MENTAL NURSES TRAINING MANUAL then had it that An ex psychiatric nurse recalls his experiences after reporting a bashing and drinking on duty to his superiors He exposes a cover up by the hospital authorities and the State government bureaucracy then known as the Mental Health Authority His report details murder and suicide cases and hints at widespread cruelty and indifference His memories and impressions of the people he met working at a Melbourne mental hospital adds colour to a subject which bears

thinking about The author's futile exploits as a candidate in the 1973 Victorian state election makes amusing and or alarming reading while his analysis of shortcomings in psychiatric practice might stimulate a new deal for the bewildered victims of our dog eat dog civilization A must for all the up and coming maniacs Gough Whitelamb in the Daylesford Gazette Lifts the lid off the sanity business Clyde Pucker in the Yea Times Reading this book didn't relieve my obsessive compulsive neurosis or my ethical dilemmas but it gave me the pleasant feeling that I am not alone in this world with my belief in the prefectability of mankind through the exercise of hope fertilized by integrity Malcolm Howard in the West Wyalong Whinger Whistle blowing anti psychiatry still resonates today Phil Saddams in the Rupert Warduck Stable

**Communication of Cancer Risk Information in Genetic Counseling** Sandra Maureen Wilkniss,2000 **The Intelligent Genome** Adolf Heschl,2013-04-17 Do our genes determine our behavior Do education and environment have any influence at all Do humans occupy a unique position in evolution To clarify these provoking questions the author takes the reader on an ambitious and entertaining journey through a variety of scientific disciplines In doing so he creates an image of human evolution that says that our entire individual knowledge is determined to the smallest detail by phylogeny before shocked humanists discard such radical theses as mere nonsense they should not completely close their minds to the explanations of a biologist who says that we still know very little about the genetic determination of human behavior and that the invariance of many forms of behavior present in all cultures nourish the suspicion that the determining role of genes is probably far more comprehensive than we have ever dreamed Wolfgang Wieser translated from his review in Merkur Sept Oct 1999 **Primrose** Elizabeth Lawson,2019-06-10 For centuries common primroses have spread breathtaking carpets of pale lemon yellow across the globe the first sign of spring Abundant edible and beneficial for many ailments they have supported civilization's social and cultural foundations When undaunted plant hunters risked their lives to introduce the many Himalayan primroses of breathtaking beauty the primrose gained iconic status Capable of endless variation primroses have captured the attention of gardeners plant breeders and scientists while artists and poets have found them essential as both subject matter and muse William Shakespeare introduced us to the the primrose path a pleasurable but destructive route in several of his plays and Charles Darwin spent more than thirty years working with primroses to solve an elegant evolutionary mystery This book tells the story of how primroses became so successful circling the Earth adapting to human civilization and yet holding their own on inaccessible craggy summits where they may never be seen Bringing together facts folklore and beautiful images from around the world Primrose is a delightful guide to this hugely popular flower

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