

There are three main types of mutations: point missense mutations, point nonsense mutations, and frameshift mutations. 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! 10 points.

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

mRNA Sequence: AUG UGG AAC CGC UGC UGA

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? AUG **U**GG AAC CGC UGC UGA (Circle the change)

What will be the amino acid sequence? Met stop

Will there likely be effects? Yes, No protein is translated. What kind of mutation is this? Substitution Point missense

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? AUG **G**UG GAA CGC UGC UGA (Circle the change)

What will be the amino acid sequence? Met Leu Glu Pro Leu

Will there likely be effects? Yes, useless, damaging protein could be produced since there's not stop codon and energy will be sapped. What kind of mutation is this? Insertion, frameshift

Mutated DNA Sequence #3: T A C A C C T T **A** G G C G A C G A C T

What's the mRNA sequence? AUG UGG AA**A** CGC UGC UGA (Circle the change)

What will be the amino acid sequence? Met Trp Asn Arg Cys stop

Will there likely be effects? NO. What kind of mutation is this? Substitution, Silent mutation due to redundancy in codons

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? AUG UGG AAC CGC UG**T** UGA (Circle the change)

What will be the amino acid sequence? Met Trp Asn Arg stop

Will there likely be effects? Possibly, depends what role that last, one and only missing aa plays in the shape of the protein. What kind of mutation is this? Point, substitution, missense.

Mutated DNA Sequence #5: T A C A C C T T G G **A** C G A C T

What will be the corresponding mRNA sequence? AUG UGG AAC CCU GCU GA

What will be the amino acid sequence? Met Trp Asn Pro Ala

Will there likely be effects? yes. What kind of mutation is this? POINT, DELETION, MISSENSE, frameshift

- Which type of mutation is responsible for new variations of a trait? substitution
- Which type of mutation results in abnormal amino acid sequence? frameshift
- Which type of mutation stops the translation of the mRNA? Point mutation producing a stop codon after Met.
- Which type of mutation is responsible for a new trait? _____

Mutations Practice Answer Key

Oswaal Editorial Board

Mutations Practice Answer Key:

Neuromuscular and Electrodiagnostic Medicine Board Review, E-Book Thananan Thammongkolchai, Pichet Termsarasab, Bashar Katirji, David C. Preston, 2023-08-04 The only review book currently available in this complex field Neuromuscular and Electrodiagnostic Medicine Board Review is an all in one must have resource for preparing for the neuromuscular and electrodiagnostic medicine neurology clinical neurophysiology and physical medicine and rehabilitation board exams Focused high yield content is provided in a concise readable manner without exhaustive or unnecessary detail helping you make the most of your study time and efficiently prepare for exams and clinical practice Questions and answers are written in board style formats including case scenarios high yield facts and questions on waveforms pathology and ultrasound images Content covers all topics from the board exams including genetics clinical trials and newly FDA approved medications Explanations are provided for both correct and incorrect answers and include numerous supporting tables diagrams and images in addition to specially highlighted content such as high yield facts mnemonics and key points An ideal study resource for the ABPN and ABEM AANEM neuromuscular electrodiagnostic medicine and clinical neurophysiology boards as well as for physical medicine and rehabilitation boards and MOC exams and during neuromuscular EMG rotation and training Any additional digital ancillary content may publish up to 6 weeks following the publication date

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Prostate Cancer Genetics: Changing the Paradigm of Care, An Issue of Urologic Clinics, E-Book Leonard G. Gomella, Veda Giri, 2021-07-06 In this issue of Urologic Clinics guest editors Leonard G Gomella and Veda Giri bring their considerable expertise to the topic of Prostate Cancer Genetics Changing the Paradigm of Care Provides in depth clinical reviews on Prostate Cancer Genetics providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews

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