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|-----------------------------------------------------------------------------------|--|-------------------------------------|--|------------------------|--|
| Name: | | Class/Section: 10 | | Date: | |
| Unit: Unit 4 - Genetics | | Chapter: 13-RNA & Protein Synthesis | | Lesson: 13.3 Mutations | |
| | | | | Textbook p.: 372-376 | |
|  | | Online Task | | | |

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|-------------------------------|-------------------|------------------|-------------------|-----------------|-----------------|-------------|
| Original DNA sequence: | TAC | ACC | TTG | GCG | ACG | ACT |
| mRNA transcript: | AUG | UGG | AAC | CGC | UGC | UGA |
| amino acids: | methionine | Threonine | Asparagine | Arginine | Cysteine | Stop |

| | | | | | | |
|-------------------------------|-------------------|------------------|-------------------|----------------|----------------------|-----------|
| Original DNA sequence: | TAC | ACC | TTG | GGA | CGA | CT |
| mRNA transcript: | AUG | UGG | AAC | CCU | GAU | |
| amino acids: | methionine | Threonine | Asparagine | Proline | Aspartic acid | |

1. What type of mutation is seen above? _____
2. How did the mutation affect the amino acid sequence? _____
3. Use the image below to answer the following
 - a. Identify the type of mutations.
 - b. State whether the mutation is a gene mutation or a chromosomal mutation.

| | | |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |
| | | |

Mutations And Genetic Conditions Worksheet Unit 7

Lesson 2

WJ Hussar



Mutations And Genetic Conditions Worksheet Unit 7 Lesson 2:

Basic Pre-Med Parent Lesson Plan ,2013-08-01 Basic Pre Med Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Microbiology As the world waits in fear world health organizations race to develop a vaccine for the looming bird flu epidemic a threat that has forced international federal and local governments to begin planning for a possible pandemic and the widespread death and devastation which would follow Will the world find an answer in time Or will we see this threat ravage populations as others have before in 1918 with influenza in the late 18th century with yellow fever or the horrific black death or bubonic plague in 1347 AD Are these viruses examples of evolution Did God make microbes by mistake Are they accidents of evolution out of the primordial soup These timely questions are examined throughout The Genesis of Germs It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in this revealing and detailed book He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man s sin and the hope we have in the coming of Jesus Christ Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process

NJN ... Secondary Teacher Manual, Grades 7-12 ,1988 NJN Instructional Resource Manual, K-12 ,1989 Cumulated Index Medicus ,1999 The Cerebellum: Disorders and Treatment ,2018-06-08 The Cerebellum Disorders and Treatment Volume 155 updates readers on the latest and clinically relevant advances in the study of cerebellar diseases in children and adults It is organized into sections detailing 1 Disorders starting from the fetal cerebellum to adult cerebellum encountered during daily practice and 2 Therapy including insights into innovative drug and rehabilitative

approaches The book s innovative structure discusses cerebellar disorders in children and adults as a continuum with its companion volume *The Cerebellum From Embryology to Diagnostic Investigations* detailing embryology anatomy function and diagnostic investigations and neuroimaging including conventional sequences diffusion tensor imaging functional MRI and connectivity studies Provides an in depth understanding of the cerebellum and its involvement in a wide variety of diseases Explores long term outcome data of pediatric cerebellar diseases and potential problems in adult life for patients with pediatric cerebellar diseases Features chapters co authored by two experts combining expertise in both pediatric and adult cerebellar diseases *Index Medicus* ,2001 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Bowker's Complete Video Directory 2001 ,2001 Science John Michels (Journalist),2005 A weekly record of scientific progress *BMJ* ,1993 *The Journal of Home Economics* ,1977 *Index to Scientific & Technical Proceedings* ,1979 Monthly with annual cumulation Published conference literature useful both as current awareness and retrospective tools that allow searching by authors of individual papers as well as by editors Includes proceedings in all formats i e books reports journal issues etc Complete bibliographical information for each conference proceedings appears in section titled Contents of proceedings with accompanying category permuterm subject sponsor author editor meeting location and corporate indexes Contains abbreviations used in organizational and geographical names Science Citation Index ,1994 Vols for 1964 have guides and journal lists

Mutations And Genetic Conditions Worksheet Unit 7 Lesson 2: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Mutations And Genetic Conditions Worksheet Unit 7 Lesson 2 : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mutations And Genetic Conditions Worksheet Unit 7 Lesson 2 : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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