

Amoeba Sisters Video Recap of Mutations: The Potential Power of a Small Change

Note: You will need an mRNA chart for many of these questions. If you don't have one, they are easy to find online with your favorite search engine.

1. Mutations can be harmful, helpful (unlikely), or neutral in their effect. Often a neutral mutation will not change the amino acid that it codes for. Using your mRNA chart, give another mRNA codon that this CUU could mutate to and still code for Leucine.

The mRNA codon CUU could mutate to C_____ and still code for Leucine, which could be a neutral mutation.



3. Even a gene mutation that is a point mutation, meaning it affects one nucleotide base, can still make a major change. Sickle Cell Anemia is caused by a point mutation known as a substitution. Complete the following example of a substitution:

If the following is for normal hemoglobin:

PORTION OF HEMOGLOBIN DNA	GGA CTC CTC
MRNA	CCU GAG GAG
AMINO ACIDS	Proline-Glutamic Acid-Glutamic Acid

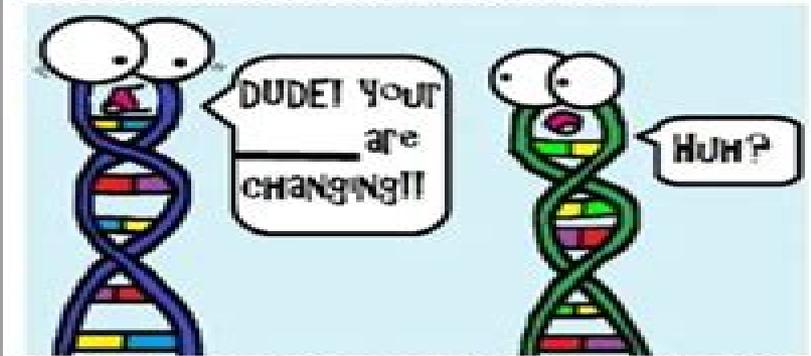
Show what would occur if the first T ("thymine") DNA base in the portion shown above mutated to an A ("adenine"). Sickle Cell Hemoglobin:

Portion of mutated hemoglobin DNA: _____

mRNA: _____

Amino Acids: _____

2. It is important to understand that in mutations, a specific part of a nucleic acid experiences the mutation. In the below cartoon, fill in the blank that describes the part of the DNA molecule that is experiencing the mutation. Then label where that part is found on the DNA in the picture below:



4. An insertion or deletion can result in a frameshift mutation. To demonstrate this, complete the following:

Normal Strand:

DNA: GCA ATG CAC

mRNA: _____

Amino Acids: _____

Deletion (causing a frameshift):

Taking out the first "G" in the original DNA above results in:

DNA: CAA TGC AC

mRNA: _____

Amino Acids: _____

How did the frameshift change the amino acids that were coded?



Genetic Problem Solving Enrichment Activity

Alberto Oliverio



Genetic Problem Solving Enrichment Activity:

Broadening the Scope of Research on Mathematical Problem Solving Nélia Amado, Susana Carreira, Keith Jones, 2018-11-30 The innovative volume seeks to broaden the scope of research on mathematical problem solving in different educational environments It brings together contributions not only from leading researchers but also highlights collaborations with younger researchers to broadly explore mathematical problem solving across many fields mathematics education psychology of education technology education mathematics popularization and more The volume s three major themes technology creativity and affect represent key issues that are crucially embedded in the activity of problem solving in mathematics teaching and learning both within the school setting and beyond the school Through the book s new pedagogical perspectives on these themes it advances the field of research towards a more comprehensive approach on mathematical problem solving *Broadening the Scope of Research on Mathematical Problem Solving* will prove to be a valuable resource for researchers and teachers interested in mathematical problem solving as well as researchers and teachers interested in technology creativity and affect

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Psychobiology of Gene Expression Ernest Lawrence Rossi, 2002-09-24 The new understanding of the relationships between gene expression and human experience emerging from the Human Genome Project is setting the stage for a profound expansion of our understanding of life The new neuroscience discoveries about enriching life experiences neurogenesis and gene expression are poised to profoundly expand our understanding of psychotherapy and the holistic healing arts We are just beginning to learn how the brain the body and our genes interact in ordinary everyday life to create our lives Here acclaimed author and pioneer of new approaches to mindbody communication Ernest Rossi introduces the new science of psychosocial genomics and explores how it will profoundly change our understanding of the pathways of communication among mind body and spirit Integrating modern molecular medicine with traditional holistic healing art and spiritual rites Rossi documents dramatically new approaches to optimize creativity in psychotherapy and therapeutic hypnosis with both individuals and groups Part I reviews significant leading edge neuroscience research on the psychobiology of gene expression and neurogenesis that leads to a new vision of the role of consciousness and creativity in the humanities and the healing arts Part II explores how to creatively facilitate the psychodynamics of gene expression neurogenesis and healing in therapeutic hypnosis psychotherapy and human relationships in general *The Psychobiology of Gene Expression* illustrates step by step how to facilitate the natural four stage creative process on all levels from mind to molecule in our daily work of building a better brain The book demonstrates how

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Anthea Maton, Jill D. Wright, Jean Hopkins, Susan Johnson, David Lahart, Maryanna Quon Warner, 1994 **Behavioural Biology Abstracts**, 1992 *Animal Behaviour Abstracts*, 2000 *Animal Behavior Abstracts*, 1993 **Islands of Genius**

Darold A. Treffert, Daniel Tammet, 2011-10-12 In this fascinating book Dr Treffert looks at what we know about savant syndrome and at new discoveries that raise interesting questions about the hidden brain potential within us all He looks both at how savant skills can be nurtured and how they can help the person who has them particularly if that person is on the autism spectrum *Glencoe Earth Science* Ralph M. Feather, 1999 Earth science is the study of Earth and space It is the

study of such things as the transfer of energy in Earth s atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9 **Inventive**

Teaching Judith Kleinfeld, G. Williamson McDiarmid, William Parrett, 1992 **Behavior Control and Modification of Physiological Activity** David I. Mostofsky, 1976 **Genetics, Environment, and Intelligence** Alberto Oliverio, 1977

Fundamentals of Creative Thinking John S. Dacey, 1989 This book combines the wonder and awe of human creativity with the complexity of its study The authors advance the biopsychosocial perspective as a model of the creative process This new perspective promises to further our understanding of the intricacies of the creative mind In the process of studying this book readers may increase the probability of enhancing their own creativity **Congrès International de Logique, Méthodologie Et Philosophie Des Sciences. 5**, 1975

Exploring Child Development Richard A. Fabes, Carol Lynn Martin, 2002 This book presents findings from current scientific research in child development highlighting how scientists tackle issues that impact children and their families The authors have integrated examples of diversity throughout the book in the domains of physical psychological and cultural differences gender race ethnicity and social and economic status Community and social issues are also covered extensively which help readers to think critically about their world As many readers of this book are pursuing careers as teachers care providers or parents the authors focus the material on these real world applications and demonstrate how theory and research matter for what readers need in their own lives For those involved in the fields of early childhood education *Water Research*, 1991 *CSA Neurosciences Abstracts*, 1999

Dissertation Abstracts International, 2005 *Geologisches Centralblatt*, 1907

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