

Name: _____



Investigation: DNA, Proteins, and Mutations

Below are two partial sequences of DNA bases (shown for only one strand of DNA) Sequence 1 is from a human and sequence 2 is from a cow. In both humans and cows, this sequence is part of a set of instructions for controlling a bodily function. In this case, the sequence contains the gene to make the protein insulin. Insulin is necessary for the uptake of sugar from the blood. Without insulin, a person cannot use digest sugars the same way others can, and they have a disease called diabetes.

Instructions:

-Using the DNA sequence, make a complementary RNA strand from both the human and the cow. Write the RNA directly below the DNA strand (remember to substitute U's for T's in RNA).

-Use the codon table in your book to determine what amino acids are assembled to make the insulin protein in both the cow and the human. Write your amino acid chain directly below the RNA sequence.

*Note: This is not the real sequence for insulin, which actually contains 51 amino acids. Uniprot provides full sequencing information on insulin and known variants. <http://www.uniprot.org/uniprot/P01308>

HUMAN DNA									
	ATC → G		ATA → A						
	AG → C		AT → A						
DNA	CCA	TAG	CAC	GTT	ACA	ACG	TGA	AGG	AAA
RNA	GGU	AUC	GUC	CAA	UGU	UGC	ACU	UCC	UUU
Amino Acid	Glycine	Isoleucine	Valine	Glutamine	Cysteine	Cysteine	Threonine	Serine	Proline

COW DNA									
DNA	CCA	TAG	CAT	GTT	ACA	ACG	CGA	AGG	GAC
RNA	GGU	AUC	GUA	CAA	UGU	UGC	GCU	UCC	CUC
Amino Acid	Glycine	Isoleucine	Valine	Glutamine	Cysteine	Cysteine	Alanine	Serine	Leucine

Analysis

1. Compare the DNA Sequence and circle any single base that is different in the cow and human sequences. How many bases are different? 4

Proteins Lab Answer Key

Roger Davis



Proteins Lab Answer Key:

Laboratory Methods in Microfluidics Basant Giri, 2017-05-15 Laboratory Methods in Microfluidics features a range of lab methods and techniques necessary to fully understand microfluidic technology applications Microfluidics deals with the manipulation of small volumes of fluids at sub millimeter scale domain channels This exciting new field is becoming an increasingly popular subject both for research and education in various disciplines of science including chemistry chemical engineering and environmental science The unique properties of microfluidic technologies such as rapid sample processing and precise control of fluids in assay have made them attractive candidates to replace traditional experimental approaches Practical for students instructors and researchers this book provides a much needed comprehensive new laboratory reference in this rapidly growing and exciting new field of research Provides a number of detailed methods and instructions for experiments in microfluidics Features an appendix that highlights several standard laboratory techniques including reagent preparation plus a list of materials vendors for quick reference Authored by a microfluidics expert with nearly a decade of research on the subject

Genomes, Evolution, and Culture Rene J. Herrera, Ralph Garcia-Bertrand, Francisco M. Salzano, 2016-03-01 This book combines recent information and discoveries in the field of human molecular biology and human molecular evolution It provides an interdisciplinary approach drawing together data from various diverse disciplines to address both the more classical anthropological content and the current more contemporary molecular focus of courses Chapters include a history of human evolutionary genetics the human genome structure and function population structure and variability gene and genomic dynamics culture health and disease bioethics future

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Immunology—The Answers Are Out There Gregory M. Woods,Andrew S. Flies,2019-03-20 Go into partnership with nature she does more than half the work and asks none of the fee Martin H Fisher Nature has undertaken an immense amount of work throughout evolution The evolutionary process has provided a power of information that can address key questions such as Which immune molecules and pathways are conserved across species Which molecules and pathways are exploited by pathogens to cause disease What methods can be broadly used or readily adapted for wild immunology How does co infection and exposure to a dynamic environment affect immunity Section 1 addresses these questions through an evolutionary approach Laboratory mice have been instrumental in dissecting the nuances of the immune system The first paper investigates the immunology of wild mice and reviews how evolution and ecology sculpt differences in the immune responses of wild mice and laboratory mice A better understanding of wild immunology is required and sets the scene for the subsequent papers Although nature doesn't ask for a fee it is appropriate that nature is repaid in one form or another The translational theme of the second section incorporates papers that translate wild immunology back to nature But any non human non laboratory mouse research environment is hindered by a lack of research tools hence the underlying theme throughout the second section Physiological resource allocation is carefully balanced according to the most important needs of the body Tissue homeostasis can involve trade offs between energy requirements of the host and compensatory mechanisms to respond to infection The third section comprises a collection of papers that employ novel strategies to understand how the immune system is compensated under challenging physiological situations Technology has provided substantial advances in understanding the immune system at cellular and molecular levels The specificity of these tools e g monoclonal antibodies often limits the study to a specific species or strain A consequence of similar genetic sequences or cross reactivity is that the technology can be adapted to wild species Section 4 provides two examples of probing wild immunology by adapting technology developed for laboratory species *The Molecular Basis of Microbial Pathogenicity*

Harry Smith, J. J. Skehel, M. J. Turner, 1980 The Official Zootrition Handbook, 1900 **History of Modern Soy Protein Ingredients - Isolates, Concentrates, and Textured Soy Protein Products (1911-2016)** William Shurtleff; Akiko Aoyagi, 2016-01-17 The world's most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 405 photographs and illustrations mostly color Free of charge in digital PDF format on Google Books **Principles of Anatomy and Physiology** Gerard J. Tortora, Bryan H. Derrickson, 2018-05-15 The phenomenally successful Principles of Anatomy and Physiology continues to set the discipline standard with the 15th edition Designed for the 2 semester anatomy and physiology course Principles of Anatomy and Physiology combines exceptional content and outstanding visuals for a rich and comprehensive classroom experience Enhanced for a digital delivery the 15th edition gives students the ability to learn and explore anatomy and physiology both inside and outside of the classroom

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Research News - Division of Research Development and Administration University of Michigan. Division of Research Development and Administration, 1982

Proteins Lab Answer Key Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Proteins Lab Answer Key**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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